Switzerland

March 29 1931 — November 4, 1931

Gray Herbarium
Harvard University

R B
Kennedy
(12)

1931

Suggested by various people as botan-
izing regions.
Lac de Champex above Martigny
Pont-de-Nant et Les Plans above Bex
Bretaye above Villars
Montana above Sion

KB 12

3-29-31 Alnus
♂ fls of Glion.

3-29-31 Leucoium vernum L. Coste III 374, Bon 305 = Leucojum — L. B.M. of C.P. 183 Fl Glion & wild ones from vicinity
commonly seen in shops etc. Not studied until 4-8-31 when withered fls from Val-Mont grounds cfd with Galanthus from Val-Mont grounds.

3-29-31 Cornus mas L. Coste II 227, Bon 136, BM of C.P. 568 Fl. Glion

4-8-31 Petasites albus Gaertn Coste II 286 = P. — J. Bauhin Bon 160 Fl. Glion Heads mostly ♂ See B&H 253 for desc. of genus. No lvs. (See 4-15-31)

4-8-31 Tussilago Farfara L. Coste II 287, Bon 160 B&H 252, G 850. Fl. Glion. Note style of sterile fls thick & undivided. Hairs of pubescence of invol purple tipped (20X)

4-10-31 Polygala Chamaebuxus L. Coste I 162 Bon 40 Fl. Glion Wings white, keel of yellow to orange at tip. Later: Red & yellow tips found on same plant.

4-11-31 Anemone Pulsatilla L. Coste I 42 Bon 5 BvH 5, BM.CP. 275 Bought in Montreux as "growing wild near-by" Flowering sts. only. Sepals very dark, dull bluish-purple. The many linear seg. of invol. united to make very narrow cup at base

(BM of CP 394)
4-12-31 ¹ Lathyrus vernus. Bernh. Coste I 401 (= L. — Wimmer Bon 89. Fl. Glion. Lfts ovate lanceolate & long acuminate (veins evident) shining below but hardly so above. St. def. lea. Petiole first not winged, longer than stipules. Roots with no evident tubercules. (See 5-2-31) [4-24-34 Lvs often with 4 pr. lfts [SvK ampi zeltii]

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4-15-31 Helleborus foetidus L. Coste I 46, Bon 9, BvH 13 Fl. Glion. Bracts often divided at tip as in ill BvH Odor strong but hardly fetid. (Observed in fl 3-24-31) Petals usually 5. widest flt. ½ in.

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4-15-31 Mercurialis perennis L. Coste III 244, Bon 282 BvH 409 Fl ♀ and ♂. Glion. Note: lvs. which look shining & glabrous are really slightly pubescent & ciliate with each internode tooth tipped with white gland. (Observed in fl 3-24-31)

*
4-15-31 Euphorbia amygdaloides L. Coste III 240, B&H 408 = E. silvatica Jacq. Bon 279. Fl. Glion. Pubescence rusty. Floral part has faint odor of peach pits which may account for name (Observed in early fl 3-24-31) (See 5-21-31) [5-13-34 Fl Glion Umbel simple and several solitary rays from lf-axils below umbel as ill (Coste), but umbel shows signs of further branching as ill (B&H)
*
4-15-31 Primula vulgaris Huds BM & C.P 584, Coste II 522, B&H 299 = P. grandiflora Lam. Bon 206 = P. acaulis Hill Fl. Glion (Observed in fl 4-1-31 or earlier)

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4-15-31 Primula veris Linn. BM & C.P. 583, B&H 300 = P. officinalis Hill = P. officinalis Jacq. Coste II 522. Bon 206 Fl. Glion (Observed in fl about 4-1-31)

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4-15-31 Hepatica triloba Chaix G 400, Bon 6 = Anemone Hepatica L. Coste I 41 Fl. Glion (Observed in fl about 4-1-31)

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4-15-31 Cardamine hirsuta L. Coste I 106, Bon 27, B&H 34 Fl & young fr. Glion (Observed in early fl 4-1-31 or earlier)

*
4-15-31 Crocus vernus All Coste III 360, Bon 309. BM & CP 199 = C. -- Hill B&H 468 Glion Fl now all withered. No sign of

pubescence on filaments or in throat but no other species poss. (Observed in fl 4-1-31 & earlier) (See 5-12-31

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4-15-31 Daphne Laureola L. Coste III 214, Bon 275, B&H 401. Fl Glion (Observed in fl about 4-4-31)

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4-15-31 Bellis perennis L. Coste II 336. Bon 162, B&H 238, B.M. of C.P. 773. Fl. Glion (Observed in fl about 4-8-31)

*
4-15-31 Lamium maculatum L. Coste III 109, Bon 252, B&H 372, G 700, B.M. of C.P. 647 Fl Glion. Lvs not spotted. Sides of lower lip strongly & concavely deflexed. Corolla 28 mm. Bracteoles small awl-shaped and long ciliate (Observed in fl about 4-8-31)

*
4-15-31 Potentilla Fragariastrum Ehrh. Coste II 17 Bon 77 = P. sterilis Garcke B&H 142. Fl. Glion common Agrees with desc. Coste except (a) filaments do not suggest "tube ouvert au sommet"; (b) the hairy receptacle has ring of bright orange color bet. stamens & carpels in anthesis (green in bud) (c) at anthesis ovule about .6 mm long & style 2 mm long. Ovules seem glabrous except perhaps at hilum. (Observed in fl. earlier). (See 4-23-31

4-15-31 Viola alba Bess. Coste I 154 = V. virescens Jord.
Not found in Bon. or B&H but prob inc in V. odorata L. Fl Glion

* (a) Fls entirely white (May be same as found on grassy slopes of Val-Mont 3-26-31)
(b) Fls white with spur purplish.
(c) Fls with petals on outside dark bright purple at tips shading to almost white at base, inside much paler suffused purple. Spur purple.
Otherwise a. b. & c seem alike. Petioles purplish. Lvs dull green & often with veins purplish.

*
4-15-31 ? Viola odorata L. Coste I 155, Bon 37. B&H 56 Fl. Glion
No odor noticed but the blunt sepals, stolon (in 1 case only) & glabrous peduncle seem to define species.
Lower petal nearly or quite entire (ill Coste & B&H) not "nettement échancré" (Bon) Lateral petals lightly bearded. But consider poss. of V. hirta L.
(Prob this is violet found with the white one on grassy slopes of Val-Mont 3-26-31)

4-15-31 ? Viola silvestris Lamk. Coste I 156, Bon 37 prob = V. — Kit B&H 57 Fl. Glion. Quite glabrous with stipules conspicuously fringed. Fl. paler than above. Stigma differs from above in that style is rounder (at least it is more spherical & is def. papillose) & tip shorter

and blunter. Lateral petals bearded.

4-15-31 Asplenium Trichomanes L. Coste III 694, Bon 379, BVH 586 G 39. Old wall. Glion.

4-15-31 Petasites albus Gaertn (See 4-8-31) Heads mostly ♀. Glion. Lvs just appearing. Bracts of invol. gland pubescent.

4-15-31 Ajuga reptans L. Coste III 133, Bon 256, BVH 374 G 692, BM of C.P. 650 Fl. Glion. Corolla with ring of hairs very near base of tube.

4-15-31 Medicago lupulina L. Coste I 321, Bon 74, BVH 111, G 510 Fl. Glion. 30 flws in the one head counted.

4-15-31 ? Arabis hirsuta Scop Coste I 102, ~~Bon 26~~, BVH 31, G 438
= A. — Clav. Bon 26
Fl. Glion Path to incinerator. 6-9 in high. Basal lvs in rosette, spatulate narrowing to petiole 1-1¾ in over all. St. lvs smaller sessile or almost clasping, slightly toothed on lower half. St. def pub. with simple spreading longish hairs. Lvs roughish pub. with hairs forked or branched at or above middle. Petals white 3.5 X 1 mm. Infl elongating below. (See 6-26-31
smaller ones from axils v less pub. than st. of upper lvs.

4-15-31 Anthoxanthum odoratum L. Coste III 539
Bon 350, B&H 530, G 121 Early fl. Glion.

4-16-31 Anthyllis Vulneraria L. Coste I 317, Bon 73
B&H 121, G 511, B.M.f.C.P. 415 Fl. Glion

4-16-31 Lotus corniculatus L. Coste I 361, Bon 81
B&H 120, G 511, B.M.f.C.P. 403 Fl. Glion.

4-16-31 Ranunculus bulbosus L. Coste I 31, Bon 9, B&H
10, G 398 Fl. Glion Some spec. much less hairy than
others.

4-16-31 Népeta hederacea Trev. B.M.f.C.P 643, G 697
B&H 364 = Glechoma —— L. Coste III 106, Bon 251 =
N. Glechoma Benth. Fl. Glion (a) Corolla 17 mm long,
stamens developed (b) Corolla 8 mm long. Filaments
very short, included, anthers undeveloped & dark col-
ored. Calyx & corolla villous as (a).

4-17-31 Lamium purpureum L. Coste III 108, Bon 252
B&H 311, G 700 Fl Glion (T). Cf. with L. maculatum L.
Corolla to 15 mm. Odor of plant strongly earthy, hardly
fetid (Coste). Bracteoles small awl-shaped but not
long ciliate as in L. maculatum.

4-17-31 Primula

Fl. Glion (Planeswood) Would be thought to be P. elatior Hill except that corolla has same folds at mouth as P. vulgaris & P. veris (Coste II 522, B&H 300, BM & CF 589 say P. elatior has no folds at mouth) This may be a hybrid bet. P. vulgaris & P. veris as desc. B&H 300. Lf very like P. veris but less abruptly contracted. Infl like P. veris (scape & pedicels looking glabrous but (20x) with very short sparse pubescence - almost papillose). Calyx most nearly like P. vulgaris with prominent angles & sharply acute lobes but calyx not as pubescent as P. vulgaris and more loosely fitting than P. vulgaris (not however def. inflated like P. veris & not dark green on angles as P. elatior [Coste]). Corolla most like P. vulgaris in that limb is almost as flat and almost as broad (23 mm while P. vulgaris is 25+ mm & P. veris is 18 mm. at most) but differs in that color is almost as dark as P. veris & tube most like P. veris in being only slightly exserted beyond calyx. Orange colored spots at base of corolla lobes like those of P. veris

4-17-31 Chelidonium majus L. Coste I 63, Bon 13 B&H B&H. 20, H 415, BM & CP 299. Fl. Glion. Note distortion of Filament narrowed to a thread at apex.

own. z-y.

4-17-31 Vinca minor L. Coste II 546, Bon 212, BVH 310 G 682, BM&C.P. 605 Fl. Glion Corolla: blue, purple or white. Note foll inside & above sinuses of corolla

7. B&H 227
4-17-31 Valerianella carinata Lois Coste II 267. Bon 146 Fl. Glion (Tovaux). ~~Fr too young to show characters but~~ fl exactly like ill V. olitoria Poll Coste II 267 Bon 146 = V. Locusta Betcke G 762, B&H 227 but note distinction BM&C.P bet. V. Locusta Betcke and V. Locusta var. olitoria L. No rosette of basal lvs. Numerous branches from top of root, all branching again several times in 2's to height of 9 in. Sts. pale, crisp, hollow. 3 mm. diam, usually 6 Ld with short, downward pointing (not appressed) hairs on Ls, otherwise glabrous. Lvs to 2 x 3/8 in (upper ones smaller), entire or with occasional obscure teeth, blunt at tip, almost equally broad from tip to base, glabrous except for short hairs on mid-rib beneath & on edges. Fls very pale blue, 1.5-2 mm. diam Floral bracts 1 or 1+ mm. wide, def. ciliate on edges
Fr (very young) 2.5 mm long x 1.1 mm wide, has furrow on face, no thickness at back, sterile cells completely divided & (together) as large as fertile cell. This points to V. carinata Lois. Fr & cross section very like ill Coste & BVH. (see 5-18-31 Fr. Tovaux exactly like ill Coste of V. carinata. 2½ x 1½ mm. Slightly pubescent.

4-17-31 Luzula pilosa Willd Coste III 455 B&H 491 = L. vernalis DC. Bon 322. Fl. Glion. Old basal lvs. widen above base (ill Bon) to 7mm, hence prob. this & not L. Forsteri DC. But bracteoles under fl. are sometimes obtuse (Coste) with no def. mid-rib and sometimes acute with midrib prolonged into short awn-like tip. Infl. (a.t.s.) suggests ill Coste.
(See 4-23-31

4-17-31 Myosotis silvatica Hoffm. Coste II 601, Bon 224 B&H 323, BMJC.P. 624. Fl & very young fr. Glion. Corolla flat, 7mm diam, blue (1 spec. white). Calyx well covered with hairs (appressed & spreading) those of tube hooked. Ovules look as tho carpels would be "more or less margined & carinate ventrally" (B.M.J.C.P.) Corolla tube as long as or very slightly shorter than calyx.

4-17-31 Myosotis
Fl. Glion. Prob same as above but only 6 in high, lfy to tops. Infl axillary & terminal on short peduncles Corolla flat, blue 5mm diam. A.t.s. (half fls opened) raceme has a tight compact look. Otherwise no dif. from above discernable.

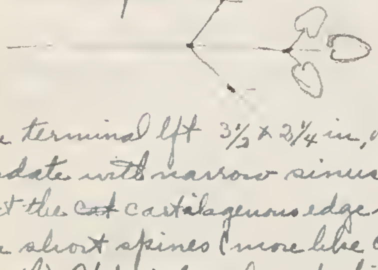
4-18-31 Corydalis cava Schweigg Coste I 66. Bon 14. Fl. Glion in grounds of Val-Mont so pors. escape from cult. Fls from purple to pure white. Bulb not collected. Corolla 25 mm longest meas. & 17 mm spread at mouth. Seeds with def. tail-like appendage twisted & translucent. In others this is only a small protuberance.

4-18-31 Corydalis solida Swartz Coste I 66. Bon 14 Fl. Glion in grounds of Val-Mont so pors escape from cult. Fls purplish. Bulb not collected. Corolla 22 mm longest meas & 8 mm spread at mouth. Scale on st., incised bracts & pedicel all as ill & desc. Coste.
~~[illegible]~~

4-18-31 Epimedium

See B.M.of.C.P. 289. Bon 11. B&H 16 for genus. Might be thought E. alpinum L. Bon 11 except that fls are pale yellow. Fls in raceme. At this stage plant consists of a naked hairy st. 8½ in long from top of which springs very young lf and infl. Fls on slender pedicels (1.5-2 cm long) subtended by small bract & sometimes with another similar bract on pedicel & 2 similar bracts immediately under fl. (sometimes so close as to seem part of perianth) Sepals 8 of which the outer 4 are smaller & greener & like the adjacent pair of bracts fall ~~early~~ in anthesis. The 4 inner

sepals (are opp. the 4 outer ones) circular, petaloid, pale yellow: 4 petals opp. the sepals, pale yellow, consist of spur the length of sepal & lying along its center with an upper rim (so that the 4 petals form a cup like center to the fl, the 4 spurs forming a cross) Stamens 4, opp. petals, opening by valve hinged at top. Ovary superior, 1-celled with ovules in 3 rows on one side, ovary showing signs of "valve on back" B.M. of C.P. Fl 1.5-2.c macrons. Young lf. (a. + s.) not as high as raceme, Petiole 2 in long, somewhat hairy. Lfts glabrous & shining above, hairy beneath. An old dead lf, collected from bed, has petiole 10 in long, the compound lf being almost 10 in long. Lf twice 3-parted



see ill Bon.

The terminal lft 3½ × 2¼ in, ovate, acute, cordate with narrow sinus, entire except that the ~~cut~~ cartilaginous edge is continued in short spines (more like ciliation than teeth) At points where petiole divides in 3, it is definitely enlarged.

Fl. Val-Mont prob. cult. Glion.

4-18-31 Dentaria pinnata Lamk. Coste I 108, Bon 28 Fl Glion. Val-Mont grounds so perhaps escape. Fl 1in+ across, pale pink. Filaments pinkish. See D434 for genus. Plant very glabrous. Lvs glaucous beneath.
[Many times later found pure white, filaments white]

4-18-31 Lathraea Squamaria L. Coste III 62, = L.s — L. Bon 244, B&H 334 Fl Gl. Val-Mont grounds under
(See 5-23-31

4-18-31 Chrysosplenium alternifolium L. Coste II 144; Bon 116; B&H 177 Fl. Col by Mrs Drage near Glion (See 5-12-31

4-18-31 ?Arabis
Fl. Glion Val-Mont grounds so pos. escaped. Prob perennial with underground st. more or less horizontal & pushing forward each year. Several simple sts. rise from same point. Lvs of what was prob basal rosette 1½ × ⅝ in with coarse rounded teeth, & prob. no petiole. Sts. round to 6 in high & covered at least below with very short hairs which are branched at top (hairs barely visible to eye); st. lfy to top. St lvs sessile & partly clasping, truncate at base, coarsely toothed or the smaller upper ones almost entire, often glabrous or with some hairs like those on st.

Calyx glabrous 4 or 4+ mm high, sepals purplish on edges, 2 of them slightly sac-like at base. Petals 9 mm x 3 mm at tip, slightly emarginate, spreading in anthesis so that fl is almost 1 cm across. Stamens purplish toward tip. Petals rosey. Pods will be much longer than wide & many seeded. (See 5-3-31

4-20-31 Cardamine pratensis L. Coste I 105, Bon 37, B&H 33, G 436, B.M.&C.P. 306 Fl. Glion. St hollow. The white root-stock bearing "small fleshy scales or tubers" (B&H). Some of larger & older basal lvs bear, on upper side of rachis at axils of lfts, pointed green tuberous projections each terminating in a fibre which may be a rootlet (about 1 cm. long). St lvs often with what seem minute abortive infl in axils

4-22-31 Veronica Chamaedrys L. Coste III 34, Bon 235 B&H 348, G 727 Fl. Glion. Corolla tube slightly hairy inside in front. Style & filaments blue. Corolla 12 mm across, of deep bright blue

4-22-31 Veronica persica, Poir Coste III 35, Bon 237, B&H 349 = V. Buxbaumii, Ten = V. Tournefortii C.C. Gmel G 728 Hairs on st tending to be in two lines but not as (Fl & unripe [illegible] fr. Glion)

4-22-31
not as def. so as in above. Corolla slightly + smaller than above + lighter with stripes showing more plain. Capsule hairy + only near top + on edges. Seeds sometimes 12 in each valve, hollowed on one side, wrinkled on the other.

4-22-31 Veronica arvensis L. Coste III 38. Bon. 236 B&H 349. G 728 Fl. Glion St. rd. Veins of lvs showing strongly beneath. Pedicels (a.t.s.) 1 mm long i.e. much shorter than bracts (Coste says "plus longs"). Corolla (a.t.s.) shows no sign of being "cup-shaped" (B&H)

4-22-31 Aubrietia deltoidea DC. B.M.P.C.P. 309. Fl. young fr. Cult. Val-Mont. Common + beautiful on vin walls in Glion + vicinity. Lower lvs crowded on st. the thickish petioles slightly clasping. Hairs of st. simple or branched or stellate. Lvs, peduncles, calyx + pod all incrusted with stellate hairs. Filaments more or less winged on edges the "tooth" of shorter filaments (B.M.P.C.P.) consisting of an upward prolongation of the inside of the filament almost equal in height to the anther. Fl 15 mm or more across bright blue-purple. Lvs usually 2-toothed on each side, rarely more.

4-22-31 Buxus sempervirens L. Coste III 235, Bon. 383. B&H 409, B.M.P.C.P. 458 Hedge. Cult. Hotel

to Glion R.R. station. note: in ♀ fl the 3 fleshy members alt with & inside stigmas & in ♂ fls the great members with irreg. top bet. stamens. Lvs to 25 X 18 mm.

4-22-31 Vicia sepium L. Coste I 385, Bon 85, B&H 128, G 526. Fl. Glion. Lfts to 7 pairs, largest 26 x 14 mm. all obtuse or truncate & def. mucronate. Stipules small entire or dentate. Racemes 5-6 fld. Fls 15 mm long. Ovules 6.

4-22-31 Teucrium Scorodonia L. Coste III 137, Bon 256 B&H 373, G 693 New lvs & old infl showing char. of calyx Glion.

4-22-31 Asplenium Ruta-muraria L. Coste III 693, Bon 380, B&H 586, G 39. Sori very young but showing char of indusia. Glion. Upper surface of frond, ^white^ flecked above (20X) with very short, distant hairs

4-22-31 Arabis Turrita L. Coste I 99, Bon 36, B&H 31 Cruciferae Fl. Glion in wall on highway to Montreux. Poss. cult. Suggests ill of Arabis Turrita L. Coste I 99 10 in high. whole plant finely covered with short

(Identified by more mature specimen 6-3-31)

4-22-31
short hairs mostly branched or stellate. St round, stout. Basal lvs. like ill Coste. 6 ins overall. St lvs numerous to very top, auriculate clasping at broad base, wavy, dentate. Inf. (at 3.) terminal, compact with buds of smaller racemes in axils of upper lvs. Petals spreading so that fl. is 9 mm. across. Petal 9 mm long x 3 mm broad, not quite pure white. Sepals yellowish green, not saccate at base, equal to claw of petal to which not closely applied. Ovary with 2 opp. lines of pubescence and def. glabrous between. Each pedicel seems to have a clasping bract a little above its base.

4-22-31 Luzula campestris DC. Coste III 457, Bon 322
BuH 492, G 279 Fl & young fr. Ilion

4-22-31 Luzula Forsteri DC. Coste III 455; Bon 322
BuH 492 Fl & young fr. Ilion. Cf. with above & with L. pilosa will of 4-23-31

4-22-31 Orchis mascula L. Coste III 402, Bon 311,
BuH 460. Fl Ilion. Lvs not spotted but this seems only possibility (See also 4-20-30). Broadest lf 2.5 cm. Fls as many as 20 on several spec. Collected frequently during next 4 weeks. Only once any trace of spots on lvs. Only other poss. seems O. palustris twice

Jacq. Coste III 402. But bracts of our spec. always 1-nerved & purplish. Spur horizontal or ascending, enlarged at tip & almost as long as ovary. Note however that besides the basal lvs. there are lvs (or bracts) sheathing st. to near top. (See 5-29-31

4-23-31 Luzula pilosa. Willd. (See 4-17-31) Glion. Fr unripe but advanced to show char. plainly. Termin. appendage more def. hooked than ill Coste III 455 & infl. markedly divaricate

4-23-31 ? Acer opulifolium Vill Coste I 263, Bon 61 ♂ Fl. Glion. Lvs just appearing like ill Coste, very hairy beneath. Exserted part of stamens as long as perianth i.e. 5 mm.

4-23-31 ? Magnolia Soulangeana. Soul. B H of C. P 290 Fl. Cult. Val-Mont. Glion Tree to ft. Fl (opened about 4-15) from furry buds before lvs. Petals to 4 in long. Sepals 2½-3 in long & about ⅔ as wide as petals. Petals & sepals of same color & texture, flushed with rosy purple outside, growing paler or white towards tip, inside white. Fl bell-shaped, 6 in across is spread open, fragrance mediumly strong. (If not M. Soulangeana prob one of its parents) Petals 6. Filaments purplish. Ovules 2 in each carpel attached toward axis.

4-23-31 Potentilla Fragariastrum Ehrh. (same as 4-15-31 which see) Fl. Glion. Plant in dense clump from one root which sends up many sts clothed along its length with lvs which bear the slender flowering branches in axils. Some of these sts may later be creeping but no real runners not evident. Petals pure white, emarginate & more def. cuneate at base than Fragaria —. Stamens with slender filaments hardly enlarged at base & anthers opening so that pollen covered surface faces inward. Receptacle pubescent, not swollen, style pale green slender 2 mm long. Fls 10 mm diam. Lfts smaller than Fragaria, yellowish green, with sec. veins showing more distinctly beneath.

4-23-31 Fragaria

Fl. Glion Cfd with above. Plant not in dense tuft. Lower 1-2 in of st stout & clothed dead remains of lvs. & runners, this year's lvs. & flowering stems all proceeding from its top. Old runners numerous slender, to 2 ft long sometimes branched. Petals somewhat less purely white than above (partly perhaps because a light veining which makes them less smooth), rounded & entire at apex and rounder at base (i.e. much more nearly circular in outline. Filaments def. larger at base than at apex. Anthers flat-

(Val-mont along R.R. track)

tish & opening on edges so that neither outside nor inside surface is pollen covered. Receptacle enlarged, even in fl, glabrous (except for at base where it is flat just inside ring of stamens) Style bright yellow, thickish ½ mm long. Fl. 15–17 mm diam. [6-19-33 plants in same vicinity were found to be F. vesca L. Coste II 27, Bon 100, B & H 140, G 479, BM of CP 351, S & K I 363]

4-24-31 Ranunculus Ficaria L. G 394, B & H 9 = Ficaria ranunculoides Roth Coste I 31 = F. ranunculoides Moench Bon 9. Fl Glion (Had been in fl at least since 4/10) Fl averages 1 in diam. (Note fl in Majorca 1-6-31 was 1½–2 in diam. As remembered lvs & whole plant much larger)

4-24-31 ? Ribes sanguineum Pursh BM of CP 336 Fl. Cult Glion. If in BM of C.P. must be this because style glabrous. Bract 5+ mm, pedicel 2+ mm. Calyx tube including ovary about equal or a trifle longer than the 4–5 mm limb. Styles united to near top. Pedicels, bracts, ovaries, & lower part of calyx all glandular. The very young lvs prob. will be dull green & glabrous above. Now softly pubes. beneath & all parts more or less glandular. Base of petiole expanded into 2 thin wings, consp. ciliate

4-24-31 Acer platanoides L. Coste I 263. Bon 61. BMJCP. 467 Broken fl on path Val-Mont Glion. So perhaps cult. Infl. ~~racemose~~, glabrous, branched. Perianth 4 mm high, stamens hardly exserted. (See 4-28-31

BMJCP. 78
4-24-31 Taxus baccata L. Coste III 280, Bon 374, BVH
432 No flr fr. Glion. Bark reddish & very scaly. L. very short petioled. St when lvs have fallen rough with overlapping broad ridges which formed the lower part of petioles (adnate to stem) Petioles prob articulated to this ridge. Frequent cone shape agglomerations of lvs prov. to be nest of a yellow grub. Lvs dark green & shining above, dull or yellowish green ~~below~~ beneath. Roughness of st. rather like Picea except that articulation is so placed (lower) that the short petioles are not left on st. Branchlets green & much more slender than Picea.

4-24-31 Picea Abies Karst. G65, BMJCP.86 = P. excelsa Link. Bon 373 = Abies excelsa DC. Coste III 285 No fl, old cones under tree. Common Glion. Branchlets golden brown, pubescent. Lvs 4 sided with stomata on all sides.

4-25-31 Coronilla Emerus L. Coste I 406, Bon 90, BMJ C.P. 416 Fl. Glion. Upper parts of st. green, obscurely angled, sometimes with a few ~~appressed~~ hairs; lower

parts of st. with much whitish incrustation where skin has broken longitudinally. Fls in 2's. Many last season's peduncles remaining. Fl 22 mm long. Peduncles usually as long or longer than subtending lfs (a.t.S.). Stamens all with filaments enlarged at top. Ovary (a.t.S.) shows no sign of articulation. No lft (a.t.S.) more than ½ in long. Mid-vein beneath often reddish

4-25-31 ✓ Potentilla verna L. Coste II 25, Bon 99 BvH 143. Fl. Glion Along R.R. bet. Val-Mont & Glion. Ident. largely by eliminating other possibilities. St procumbent (hanging over banks) to 1 ft long, naked (& reddish) below or with a few remains of old petioles (2-3 in long) This seasons growth consists of terminal (prob. later lateral) tuft of several short sts. Some of these (a.t.S) very short & lfy with 5-foliate lvs. Others to 3 in, with st. lvs (or bracts) 3-foliate, branching & cymose as ill Coste but fls (now mostly in bud) seem slightly more numerous. Most of these flowering sts shorter than (or equal to) the dead lvs from same point but a few elongated. Fl 12-15 mm diam. Bracts narrower than sepals but fully as long. Largest of old lfts 18 mm long, but this seasons lfts not more than ½ as large. One spec. has tuft of last seasons lvs & infl on lower part of St. Pedicels very slender but not "recourbés" and carpels not "ridés-rugueux" as desc for P. opaca Roth (Coste). All parts covered with spreading hairs. (See 5-30-31

4-25-31 ♀ Corylus Avellana L. Coste III 259, Bon 387 B&H 420, B.M. of C.P. 230 also H 333 for good desc. of genus ♂ fl. Catkins ♂ just dropping & lvs. beginning to appear. Catkins slender, several together, pendulous. Scales golden brown, pubescent, much thinner than in Alnus 3-29-31. Each scale with "2 small lobes or adherent scales inside & stamens inserted on scale itself" (B&H). No evidence of ~~anthers~~ filaments "forked" (B&H) except that one of the short filaments sometimes seems to bear 2 of the one celled anthers. Ill Coste very exact. (See 5-3-31

4-25-31 ♀ Bergenia ligulata Engl. B.M. of C.P. 326 Fl. Cult. by Una Drage Glion. On the old lf col. the ciliation almost spiney to touch, & nothing that could def. be called "gland-bearing pits". Petals 15 mm long, perhaps not quite orbicular. 5-1-31 Cult "Tornux" Glion Young lf. irreg serrate, not at all ciliate. Lf both sides with very small pimplish effects visible only 20X. Fl not collected but seemed the same as plant commonly cult hereabouts.

4-25-31 Arabis alpina L. Coste I 98, Bon 26, B&H 31 (ill. poor) B.M. of C.P. 307 Fl & unripe fr. Glion Val-Mont grounds Cult. Ident mostly by Coste.

4-25-31 ?? Digitalis lutea L. Coste III 26, Bon 238 Last season stalks with dead lvs & empty capsules

and early basal lvs of this season. Glion R.R. bet V-M V Glion. Ident as exact as poss. without fls. Capsules all turned to one side of st.

4-25-31 Galium Cruciata Scop. Coste II 241, Box 139 BVH 220 Fl. Glion.

4-25-31 Geranium pyrenaicum L. Coste I 247, Box 58 ~~BVH 95~~ seems to equal G. — Burm f. BVH 95, G 535 Fl. Glion. Stipules conspicuously bright red. Largest fl 1.5 cm diam. Lvs to 3 cm across, veins rather strongly marked. Petals def. but not deeply notched.

4-26-31 ? Alnus cordata Desf. Coste III 277 Tree in grounds of Val-Mont, Glion hence prob cult. ♂ fls & young lvs. Such outer scales of lf buds as are left are glabrous but the petioles & blades sprinkled with small circular brown scales. Lvs all short pointed. Teeth of lvs rounded & slightly broadened at tip. Lvs shining above and glabrous except for silky tufts of hair at base of mid-rib beneath. Old cones (still on trees) 25 x 15+ mm. Fr 6 x 3 mm, oval & gradually curving to an acute tip (Hence not as pill Coste with def. shoulders to wings.) ♂ infl racemose of several catkins, now falling

[8-5-34 Fr from (a) (on rd slightly west of V-M. proves this is not B. pubescens. See ill SVH p 194. tho' poss. not pure B. pendula.]

4-26-31 Betula pubescens Ehrh Coste III 375, Bon 289 SVH 419. Fl ♂ & ♀, very young lvs. & remains of old fr. Glion Spec. col from 2 trees (a) bark white, (b) bark reddish. Both trees slender (perhaps young) but no diff evident otherwise. Twigs brown & short pubescent.

4-26-31

Bit of infl found lying in road near Val-Mont. Infl 2 in long, a raceme. Pedicels almost 2 mm long, seated in shelf-like depressions on rachis but not bracted.ˣ Ovary ovoid about 4×3 mm, with rather closefitting cup-like truncate perianth 1 mm high. Ovary with 2 grooves down opp. sides and a sessile stigma of 2 thin spreading lobes (or as this is detachable from ovary perhaps not quite sessile.) Ovary 1-celled with about 10 ovules near base on what seems to be 2 parietal placentae alt. with grooves on outside. Ovules erect on stalks (ill defined at base) as large as ovules.

No sign of ♂ members. 4-28-31 Similar bit found near Avants. Infl 3 in long. ˣ shows deciduous bracts (concave with long brown fringe at broad top. base cuneate. about 4 mm long inc. fringe.) Ovary usually 4-grooved with 4 alt. placentae. Ovules about 30.

4-26-31 Cerasus avium Moench Coste II 7, Bon 95 = Prunus avium L, SVH 135, 4 499, BM of C.P. 370 Fl & lvs almost full grown Glion. In woods outside of cult. grounds & prob. wild. Calyx tube def. constricted at top, petioles with 1 or 2 red glands at top, inner scales of both

[But See S v K I 386-7 as to bud scales. and See 4-22-34]

Lf & fl. buds foliaceous (agreeing in this with G and B.M. & C.P. but not with Coste). Calyx lobes entire (B.M. & C.P.)

4-28-31 Oxalis Acetosella L. Coste I 266. Bon 62. B v # 98. G 533. B.M. & C.P. 437 Fl. Glion ~~in fl. bed at Val-Mont but possibly~~ wild. Note: petals very slightly emarginate & veins faint (See B.M. & C.P. which suggests that American plant differs in these respects & is O. montana Raf.) Petals with knob on each edge just above base & above that a yellow spot. Green parts of plant pubescent with hairs often appressed & sometimes rusty. Calyx ciliate.

4-28-31 Mahonia Aquifolium Nutt. B.M. & C.P. 288. Fl. Val-Mont. Cult. Sepals 9, Petals 6 with 2 glands near base, Stamens 6, opp petals. Filament with spreading linear tooth (½ mm long) on each side at top. Infl of several short (1 to 2 in) racemes each from axil of bud scale. Each pedicel subtended by small concave bract. General effect of infl like a sessile umble.

4-28-31 Helleborus

Fl. Glion Cult. (Has been in fl. since about 4/10 or earlier.) Lfts 7 (in 1 lf. col.) & lf most like ill. H. niger L. Coste I 45. But other char. suggest H. viridis L. Coste I 46 Bon 9 B v # 13

4-28-31

B&H 13. Lfts dentate almost to base. Fls more than 2 (in this case 4) & bracts (or floral lvs) sessile & digitate as ill. Coste and B&H. Fls greenish white or rosy. Sepals dotted with carmine below middle. Petals less than ½ length of stamens when fl in full blossom. Note that B.M. of C.P. 280 desc. of H. niger L. includes char. of H. viridis L. acc to Coste, & B&H, & Bon. Petals 15 in each (of 2) fls counted. Widest lft. 3 in.

4-28-31 Forsythia suspensa Vahl var. Sieboldi Zabel B.M. of C.P. 596 Fl. Cult. Ilion. St. hollow. Fls 1 from each of the several buds grouped close together. Lvs just appearing but as far as could be seen all simple & toothed above middle.

Not in R.B.K's books.

4-28-31 [ACUBA says Miss MacEwan 5-13-34]
Shrub cult at Val-Mont. very decorative with shining lvs & bright red fr. Lvs opp. exstipulate glabrous shining. (a) Lvs yellowish green not spotted, to 3x1 in narrowed at base & rather broadest above middle, distantly but deeply toothed above middle with sharp, narrow apex. Petioles ¾ in. (b) Lvs with many yellow spots & blotches to 5x2 in., less cuneate at base than (a), teeth less distinct. Fr the same in (a) & (b). of 1 or more short (to 2 in) racemes now lateral in axil

of young branch but poss terminal in anthesis. Fr 1-5 on short (5 mm or less) pedicels at end of peduncle. Pedicels as thick as peduncle. Fr a drupe, oval, 1/2 in long, bright red, apex showing a small disk overlapped at edges by 4 tiny calyx teeth, Stigma ~~no~~ sessile (or almost) oblique & obscurely 2-lobed. Seed 1. almost as large as drupe with a flat cord lying in shallow groove along one side from top to bottom. Young fl. buds show ovule solitary, pendulous. Calyx tube (or outside of ovary) pubescent with brown appressed hairs. Petals 4 now (in bud) green outside, purple inside with sharp inflexed tips. Petals about 2 mm or small. Disk contracts & then expands into oblique lamb-like stigma. No ♂ parts. Consider poss. of Coprosma B.M. of C.P 712. Crushed lvs & fr have strong pale odor, not esp "fetid" (See 5-7-31

= Cytisus alpinus L. Coste I 303, Bon 71

4-28-31 [Laburnum alpinum Griseb. B.M. of C.P 419]

Tree just east of Dr. R's garage Val-Mont. Very young lvs & last season's fr. Would be thought Laburnum except that B.M. of C.P. 419 and Coste I 303 say "no stipules". These lvs (hardly out of bud) have awl-shaped stipules to 13 mm long, sparsely pubescent esp. towards tip. Lflts silky pub. on edges & slightly hairy on mid-rib beneath, otherwise glabrous. Infl to 12 in, shows no signs of silkiness (a.t.s.). Pods 1-1 1/2 in, upper suture thin, poss. slightly winged. Seeds 1-3, brown, 4.5 mm longest dimension

[See 5-15-34 and 8-3-34 when this tree was definitely proved to be Laburnum anagyroides Medic.]

4-28-31

dimension, the more or less heart-shaped base with one lobe very much broader than the other (See 5-30-31)

4-28-31 Acer platanoides L. (See 4-24-31) Glion. Tree in fl but only twig with very young lvs. col. Note: 4 red bud-scales (to 1¼ in long) form conspicuous cross (later revolute) under the new twigs. These scales with fine, appressed, rusty hairs on outside, glabrous inside. Petioles & young lvs. glabrous but more or less covered with small waxy globules. Sap (when petiole broken) milky

4-28-31 Acer Pseudoplatanus L. Coste I 263, Bon 61, B&H 101, BM.JCP 467. Bud opening. Lvs well developed. Glion

4-28-31 Cerasus Mahaleb Mill. Coste II 8, Bon 95, = Prunus — L. G 498. BMJC.P. 370. Bud (opening in house) very young lvs. At least some of petioles with 1 or 2 glands at summit (BMJCP. tho Bon says not)

4-29-31 Tilia platyphylla Scop. Coste I 233, Bon 54 = T. platyphyllos Scop. B&H 92. BMJC.P. 482. Very young lvs and old fr. Glion. Bud scales 3, the inner scale def. clasping (but not quite encircling st.) Scales

show signs of earlier pubescence but now almost glabrous. Stipules conspicuous as lf unfolds looking like more ^& larger bud scales. Youngest twigs def. pubescent. Fr. 8-10 mm long, obovate, pubescent with 3 to (usually) 4 def. ridges, shell thick & hard. Lvs. def. soft pubescent beneath (R.+S.)

4-29-36 Clematis Vitalba L. Coste I 36, Bon. 4, B&H 3, B. MFCP 278. Old fr. Illinois. Ident. by climbing st. & pubescent receptacle. Awns 1½-2 in long. Each carpel on very short but def. stalk which issues from cuplike depression on receptacle and ends in cuplike depression in carpel.

4-29-37 Wisteria
Cult. Val-Mont. Fls white, 2 cm overall, ~~wings~~ standard 22 mm wide, on pedicels 1-2 cm. Calyx grayish white, def. pubescent. Pedicels softly pubescent. Raceme 12 in long overall, the lower part bearing 7 alt. lvs of which the upper 2 subtend fls. Fl.-bearing part of raceme 9 in long. Lfts 11 or (usually) 13. (No lvs except those on raceme col. Lfts. (~~now~~ ^now very young) appressed silky pubescent. Note: in front of each lft one subulate ~~stipule~~ like appendage. Fl. fragrant.

4-29-31 Fraxinus excelsior L. Coste I 279, Bon 211, B&H 308, BM&C.P. 598 Fl ♂. Glion. No ♀ parts found. Desc B&H excellent. (See 5-7-31

4-29-31 Kerria japonica DC. B.M.&C.P. 349. Fl (double) Val-Mont Farm.

4-29-31 Veronica hederaefolia L. Coste # 35, Bon 237, B&H 348 Fr. Glion Rd east of Mont-Fleuri. Not noticed elsewhere. Found frequently in May 1933 vicinity of Glion

4-29-31 Veronica
Fl & young fr. Glion perhaps near above. Poss the same as V. thot to be V. arvensis 4-22-31. Many st. from rather slender root. St decumbent & rooting at base & usually with several opp. branches on lower part. Lowest lvs. ovate, subcordate, rounded at apex, with def. rounded teeth broader than sinuses, with 3-5 nerves (usually 5) distinct beneath, to 15 mm long & slightly narrower. petioles 5 mm. Intermediate lvs similar but sessile (all opp.) much shorter than internodes. Infl. often compound by st. branching at top. Lower floral bracts show transition bet lvs & upper floral bracts which are small

(looking almost like a larger calyx lobe) lanceolate & entire. Corolla very pale about as high as shorter calyx lobes, hence much shorter than longer calyx lobes. Widest capsule 4 mm high x 4+ mm wide, very flat, glabrous except for ciliate edge. Style never more than ¾ mm not projecting above top of capsule. St. & lvs def. pubescent. V. arvensis L. seems best guess altho pedicels are not longer than calyx & bract (Coste says "longer"), capsules larger (Coste says 3 mm) and no mention in floras of rooting sts. Ovules 10-12 in each cell (of one capsule counted)

4-29-31 Salix incana Schrank Coste III 270 Bon. 287, BM & C.P 224 ♂ fls Glion Highway west of Val-Mont near spring. Young twigs greenish, ridged, pubescent. Bud scales have been pubescent, of a rather bright yellow beneath the grayish hairs; many now more nearly glabrous still rather bright yellow with ~~distinct~~ brownish red tips. ♂ catkins on very short hairy stems with a few short linear (to 8 mm) bracts below. ♂ catkins about 2 cm. long, the lightly pubescent scales greenish yellow and def. rosy at tips. Stamens 2, 4-5 mm long, filaments united for some distance above base & on this portion slightly hairy inside. Gland 1, almost orange color, ~~Stamens~~ anthers yellow. Very young lvs. (just long & narrow but not like ill. Coste) whitish wooly both sides esp. below. Stipules none.

4-30-31 Ranunculus acris L. Coste I 29. Bon. 9. B&H 10, G 398, BM of C.P. 273 Fl. Glion. Note Ill of lf B&H much better than Coste.

4-30-31 Saponaria ocymoides L. Coste I 186, Bon. 46, BM of C.P. 265 Early fl. Bet. Glion & Montreux. ~~St. often reddish~~ St. trailing with many lateral, more or less erect branches (6-12 in) which are often reddish. Lvs at base of these branches crowded & small. The upper lvs distant & larger (to 1¼ in long) not as ovate as ill (Bon) but rather eliptic & narrowed to base, ciliate below but not towards tip. St. & peduncles very hairy. Calyx glandular-hairy, nerves obscure. Petals with 2 erect linear prongs (⅓+ mm long) at throat. Stamens curl in spiral on withering

4-30-31 Euphorbia Cyparissias L. Coste III 242, Bon 281, G 549. B.M of C.P. 453. Fl & very young fr. Glion - Base of st. covered with short, lanceolate, crowded, scales. Lvs on st. sometimes to 5 mm wide.

4-30-31 ♀♀ Lathyrus latifolius L. Coste I 402, Bon 86, G 527. B.M of C.P. 393 No fl or fr. Bet Glion & Montreux. St & petiole 1 cm wide inc. wings. Stipules 1 in.

overall. Lf to 6-8 cm long x 15 to 20 mm wide.

4-30-31 Carex digitata L. Coste III 510, Bon 337, B & H 514
Fl just fading. Glion. Tufted with 2 (in case studied) stems which for ½ in or more at base are covered with shreds of old lvs. Lvs. all from base, about as high as culms, 2-3 mm broad, rough to touch esp. when dead. Culms about 15 cm high, several from each st., erect, very slender, ridged but not obviously 3-angled, naked except for a few short, red, sheathing bracts at base (These bracts with short [3-4 mm] subulate blades. ♂ spike about 1 cm long, narrow, its scales red-brown but with broad white edges & tips which make the spike paler than the ♀ spikes. ♀ spikes (c.t.s.) not more than 1.5 cm. Scales broadened toward the rounded and (sometimes) apiculate tip, brown with green nerve down back. Scales now as long as the trigonous, short beaked, puberulent perigynia. Bracts sheathing, more or less reddish 14 mm or less long with short subulate blade.

4-30-31 Linaria Cymbalaria Mill. Coste III 15, Bon 232, B & H 34, G. 720 = Cymbalaria muralis Gaertn B.M. & C.P. 676 = C. Cymbalaria Wettst. Fl. Bet Glion & Montreux.

4-30-31 Prunus spinosa L. Coste II 6. Bon 95, B & H 134. B M J C.P. 365. Fl. Bet. Glion & Montreux.

4-30-31 ? Bryonia dioica Jacq. Coste II 94, Bon 107. B & H. 169 {B. — L. / B M J C. P 739. Very early pistillate bud. Bet Glion & Montreux. Tendrils not opp. the lvs (Coste) but at side just outside the axil.

5-2-31 Lamium Galeobdolon Crantz. Coste III 110, Bon 251, B & H 372. Fl. Glion. Upper tooth of calyx most widely separated from others and the 2 lower teeth nearest together, general effect not 2-lipped. Corolla tube with longitudinal furrow in front.

5-3-31 Arum maculatum L. Coste III 433, Bon 317, B & H 436. B. M J C. P. 134. Fl. Glion. Lvs not spotted. Spathe pale green with only slight tinge of purple at base, 7½ in. long. Spadix 3½ in long, the enlarged tip dull brownish-purple about 1¼ in long. Male fls nearer the ♀ than ill (Coste) with fewer filaments between

5-3-31 Lathyrus vernus Bernh. (See 4-12-31)
(a) Calyx tinged purple. Corolla purple turning

greenish-blue
(b) Calyx pale green. Corolla pure white. Otherwise like (a)
Path on hillside above La Vuaz.

5-3-31 ? Salix Caprea L. Coste III 269, Bon. 287, B & H 425, B.M. of C.P. 224. Unripe capsules and young lvs. Rd east of Val-Mont. Twigs brown-purplish, glabrous (but new growth tomentose-pubescent), scales of unopened buds glabrous. Lvs. (largest now 3x2 cm) with short pubescent petiole, ovate or oblong, rounded at base, tip short & broadly acute, perhaps down curved. Lf scantily pub. above (& prob will be rugose later), white crispy (or perhaps silky) beneath, obscurely toothed but stipules none or very small (B & H & B.M. of C.P. say conspicuous but caducous). ♀ catkins to 1½ in., thick, on very short peduncle with a few bracts (which do not look as tho they would be "2 in long" in fr. B & H) Rachis pubescent. Pedicel pub. about 2 mm long i.e. as long as the hairy scale (which is black except at very base) & at least 8 times as long as the tiny gland. Capsule pub. 5 mm long (a.t.s.) with long tapering beak; style not more than ½ mm. Stigmas ½ mm. Lvs never widest above middle

5-3-31 Corylus Avellana L. (see 4-25-31) Note that the stipules or scales which are appearing as lvs. unfold are [green] oval, convex, ~~[inside silky or outside] glabrous or with ...~~ with hairs (more or less matted) on the thin edge, 6 X 5 mm. Young twigs, besides a white pubescence, have spreading purple [or white] gland tipped hairs. Stipules are glabrous both sides or at first silky outside

5-3-31 [Carpinus Betulus L. see 6-30-33]
No flor. fr. Young lvs. of brush newly planted for hedging road above farm Val-Mont. Twigs reddish brown with small white dots visible to eye, young growth [red] with scattered long white hairs. Stipules lanceolate 10 X 4 mm. red & conspicuous with a few long rather tawny hairs on back, glabrous inside, more or less matted hairs on edges. Lvs thin (i.e. much thinner ~~than~~ & smoother than Corylus or Ulmus) and in shape & nervation like ill. Carpinus Betulus L. Coste III 260 Nerves never as many as 12. Young lvs. strongly deflexed as they come out of bud.

5-3-31
No flor fr. Tree nr. Highway west of Val-Mont. Bark looks like "iron-wood". Branchlets spreading in same plane. General ~~effect~~ much as above except

that lvs are yellower green with 12 or more nerves. Stipules 13 x 4 mm with sides ‖ & apex blunt, pale yellowish green, never red.

5-3-31 Viburnum Lantana L. Coste II 231, Bon 137 B&H 216, A 759, B.M. of C.P. 720. Early bud. Glion (5-22-31 fl)
Peduncle ½ in.

5-3-31 Bromus mollis L. Coste III 648, Bon 368, B&H 552 = B. hordeaceus L G 168 = Serrafalcus — Parl Barceló 510 Bud. Heeling in ground east of Val-Mont. (See 4-20-30) Common later at Glion

5-3-31 Chaenomeles lagenaria Koidz. B.M. of C.P. 377 Fl. Cult. Val-Mont. "Japanese Quince" Note stigmas with decurrent lobes.

5-3-31 ? Arabis
(Same as 4-18-31 with rosy fls) Humifuse fr. Wall opp Val-Mont. Pedicels about 6 mm. Pods now 7 cm long x 1½ mm wide, very flat, glabrous, no sign of dorsal nerve, position of seeds showing plainly as small elevations. Pods spreading & drooping, all turned to one side (perhaps because on side of wall. Seeds in 1-row no sign of wing or margin. Filaments slender.

5-5-31 Corydalis lutea DC. Costa I 66, Bon 14, B&H 23
Fl. Val-Mont grounds so perhaps cult. Bracts very pale, toothed above middle much shorter than older pedicels but a little longer than the young pedicels. Sepals whitish, dentate. Corolla to 15 mm overall. St angled

5-5-31 ?? Ulmus glabra Huds B.M.&C.P 233, B&H. 415 = U. scabra Mill = U. montana With. Costa III 252 = U. montana Sm. Bon 283 No flor fr. Lf exactly like ill Costa. Note lf base not as oblique as other species, some of veins forked, apex relatively long. Petioles 1½ mm or much less. Young growth, ^sheeny^ with spreading white hairs. Lvs look shining beneath in spite of hairs (a. & S.) but as well as on veins. Tufts of hair in lower axils. Stipules about 7 mm, very narrow & delicate, pale, spreading before they fall. (See 5-12-31

5-7-31 ? Doronicum
Cut fl on st 10 in long brought by Una Drage for ident. Using key B.M.&C.P. Head 3 in across with yellow disk fls and 1 series of yellow ♀ rays; invol not dry, scarious & imbricated, receptacle naked (tho' puberulent), herbage shows no signs of being ~~[illegible]~~ "punctate or glandular or resinous dotted" nor is pappus , scales (see Helenium Tribe & its genera)

bracts of invol. in about 2 series & all equal. pappus of capillary bristles, anthers not tailed at base, rays yellow ∴ Senecio Tribe p 753. Bracts not + series connate at base & without short bracts at base ∴ Doronicum

St. hollow, strongly ridged, almost glabrous below but becoming thickly glandular pubescent shortly below fl. head. No basal lvs collected but lvs distant on this piece of st, there being only 2 in the 10 in length each subtending a bud. These are ovate (the lower one broadly so) cordate-clasping sessile, dep & irreg. toothed, pubescent on both sides. Invol. bracts 1½ cm long (from st. to tip) narrowly lanceolate, acuminate, ciliate, pubescent but not glandular above the base. Receptacle cone shaped & hollow, pubescent (not velvety) Rays 3 cm x 4 mm somewhat irreg. toothed at apex. Achenes oblong, truncate, strongly ribbed, those of rays glabrous & without pappus, those of center silky pubescent & with pappus of denticulate hairs.

See Coste II 396, Bon 162, B & H 257, B.M. of C.P 781 (See 5-18-31

ACUBA

5-7-31 ?? ~~Cotoneaster~~ 4-28-31 (Lvs spotted yellow.

♂ fl. Val Mont, Infl of 3 panicles to 4 in long from terminal bud (a young shoot now 2 in long will make these soon lateral) St of infl appressed pubescent with deciduous bracts at each branching. Disk at base of perianth may be calyx. Perianth of 4 (or 5) lobes (like Galium) green outside brown-purple inside. Stamens as many as lobes

5-7-31
lobes on very short thick purple filaments alt with lobes & overlapping onto the green disk in center. Anthers sessile. Disk has small umbilicular depression in center. No ♀ parts.

5-7-31 Gentiana verna L. Coste II 564, Bon 215, B & H 313 Fl. Col. by Col. Droge prob in Les Avants Region (Note very difficult to distinguish bet desc. of this & G. pumila Jacq. Coste II 564 not given in Bon) Fls 2.5-3 cm high and 2.3-3 mm across, Petals entire or more or less denticulate obtuse-acute at apex, folds notched at top & sometimes slightly toothed besides, inner edge of fold white. Throat entirely filled by the 2 white, semi-circular short fringed (or toothed) lobes of stigma. Ovary base angled as below but less than ½ mm high
(See 5-12-31

5-7-31 Gentiana Kochiana Perr & S. Coste II 563 prob. inc in G. acaulis L. Bon 215. Fl. Col without roots by Miss Hoffman from Zweisimmen 5-3-31. Corolla 4½-6 cm high with 5 blotches of bronze-green at throat terminating the bands formed of several lines of thickened dots on tube. Anthers united. ~~[illegible]~~
No basal lvs. to study. Ovary white seated on a base 2 mm high, bright green and def. obtusely 5-angled St. (as col.) often 2 mm long. But corolla lobes not acute.

5-7-31 Scabiosa columbaria L. Coste II 280. Bon 148. BvH 330 Fl. Glion. Fl. pale lilac as desc. (Box and BvH not Coste) Lvs more or less pub. with short, curved-appressed upward-pointing white hairs. Peduncles with similar hairs downward-pointing. Stigma 2(or more) lobed, with 1 lobe longer than others.

5-7-31 ?? Phillyrea decora Boiss v Bal B.M.J.C.P 593. Fl. Cult. Val-Mont. Oleaceae with clusters of small white fragrant fls axillary, longest pedicel 1/4 in & others much shorter (Consider poss of Osmanthus) Lvs very firm & leathery, yellowish green & somewhat shining above, paler & dull beneath. Both sides with minute dark dots (20 X). Lvs 3-4½ in x 1 to 1½ in. oblong, tapering about equally to both ends, edge partly cartilagenous. Calyx whitish, its lobes more or less jagged or toothed. Filament about makes a ridge on corolla from base to sinus, Anther 2+ mm, longer than filament. Stigma only slightly higher than base of anther.

5-7-31 Viburnum Tinus L. Coste II 231, Bon 137. B.M.J.C.P. 719 Fl. Cult. Val-Mont. Young sts. ridged, somewhat reddish & pubescent with dark hairs (somewhat) Very young lvs. show minute dark dots (20 x) beneath as well as occasional pubescence (stellate or not). Older lvs. with tufts of hair in axils beneath.

5-7-31 Anemone ranunculoides L. Coste I 43, Bon 5. Fl. Brought with Gentiana verna by CR Drage prob from Les Avants region. Naked at with invol v 1 flowly. St. glabrous but peduncle def. pubescent

5-7-31 Alliaria officinalis Andrz Bon 23, B&H 36, G 429 = Sisymbrium Alliaria Scop Coste I 91. Fl. Glion. St. below & lower petioles hirsute & tinged bright lavender.

5-7-31 Rumex Acetosa L. Coste III 197, Bon 271, B&H 396, G 357 BM.&CP. 247 ♂ & ♀ fls. Glion. (See 5-18-31

5-7-31 Fraxinus excelsior L. (See 4-29-31) ♀ fls & old fr. Glion. No fr. longer than 1/4 in. Ovaries 2-celled with 2 (perhaps more ovules in each cell)

5-7-31 Poterium Sanguisorba L. Bon 102, B&H 146 = Sanguisorba minor, Scop B.M. & C.P. ~~###~~ 348, G 494 part = P. dictyocarpum Spach Coste II 59 (at least includes it). Fl. Glion. Impossible to ident as to species in Coste until fr. ripe. St. reddish.

5-8-31 Primula farinosa L. Coste II 523, Bon 206 B&H 300. Fl. Cult. Una Drage but "native at high alt" St. 5 cm high. Pedicels now no more than 2 mm. i.e. about ½ as long as bracts. Fls 5 mm high & 10 mm across.

5-8-31! Hippocrepis comosa L. Coste I 410, Bon 91, B&H 125. Fl. Glion Middle path from Tovaux eastward. Ident. as sure as poss without fr. Tufted sts. spreading on ground, red on upper side. Lflts 9-11, largest 8 mm long, reddish on entire edges. Young lvs. & st. with appressed white hairs, soon glabrous. Fl 10-12 mm overall. Petals long clawed, claw of standard being def. longer than the others and lifted above them (so one can easily see between) Standard more or less stripped red. [Fr. later makes ident. sure See 8-12-31

5-8-31 Asperula odorata L. Coste II 355, Bon 143, B&H 223, Bull C.P. 710. Fl. Glion common. Note: small reddish glandlike dots at top of calyx.

5-8-31 Melica nutans L. Coste III 621, Bon 364, B&H 652 Early fl. Glion

5-9-31 † Geranium ~~pratense L.~~ silvaticum L. Coste I 248, Bon 58 BvH 94, ~~H 035, BMJC P 454~~. Fl. Glion (But consider poss. of G. silvaticum L.) Fls 3-4 ~~mm~~ cm wide, of a purple much bluer than G. pyrenaicum L. with conspicuous white center. Petals pubescent on face of claw! Filaments broadened & flattened to 1.3 mm at base & pubescent on outside below. Rootstock with brown scales (BvH) Very common

5-9-31 Galium silvestre Poll Coste II 250, Bon 141 BvH 221. Fl Glion. St very slender, smooth or slightly roughened with sparse, very short hairs. Internodes 5 cm much longer than lvs. Lvs in whorls of 6-8, very narrow (to 1.5 mm wide), 10-17 mm long, with a stiff attenuate tip, glabrous above, with short, stiffish, upward-pointing hairs at edge (but not def. ciliate), mid-nerve beneath relatively broad & lighter colored. Panicle open, lax. [8-28-34 Fr. Glion Fr. "finement chagrinés".]

5-9-31 Rhinanthus ~~Crista-galli L.~~ Bon 239. BvH 352, ~~H 735~~ Fl. Glion. ~~[illegible]~~ Note Bon & BvH consider all R. essentially one species. See also H 735 for several species as well as Coste III 50. Acc to Coste this may be R. Alectorolophus Poll. Bracts are pale yellowish green with short, soft pubescence, sharply acute. lowest teeth about 3 mm long.

[Because of the pubescent calyx this acc. to SVK I 610-612 must be R. Alectorolophus Poll in one of its forms inc. II 2137 & 2138

Calyx pub. with both short & long white hairs. Corolla 2+ cm long, tube a little curved, the purple teeth of upper lip 2 mm long & // to the projecting style. Under lip with 4-6 dark dots at base of lobes. Note bracts have peculiarity in veining in that a lateral nerve parallels the mid nerve on each side with no obvious net veins between but strongly marked veins seen from the outside of these lateral nerves to the sinuses.

5-9-31 Chenopodium Bonus-Henricus L. Coste III 184, Bon 369, BVH 388, G 366, BM of C.P. 250. Fl. Ilion. Lvs. with sharper lobes than ill (Coste) and when spread flat show sinuses much straighter than ill (Coste). Perianth seg. jagged at top like ill (BVH.)

5-9-31 Polygala vulgaris L. Coste I 164, Bon 44, BVH 59 Fl. Ilion

5-9-31 Juglans regia L. Coste III 254, Bon 284, BM of CP. 228 ♂ fls Ilion. Cult. ♀ fls not found. 5-22-31 ♀ fls Ilion. Calyx 4 lobed; petals 4 as desc. B.M of C.P.

5-9-31 Avena pubescens L. Coste III 595, Bon. 359, ~~BvH~~ = A. — Huds. BvH 541, G 141 Fl. Glion common. Lower lvs & sheaths noticeably hairy but not "retorsely" (G). Ligules to 1 cm. Sheaths overlapping, the uppermost sheathing the panicle as it expands. Blades short, uppermost about 1 in. lvs with upper & lower surface the same but not whitish margined (Coste III 598). Glumes & upper part glumes very thin & transparent. Spikelets silvery green, awns purplish

5-10-31 Luzula silvatica Gaud. Coste III 457, BvH 492 = L. maxima DC. Bon. 322 Fl. in various stages Caux & descent to Glion. Note: The only seed old enough to show had very small terminal tubercle (Coste says tubercle, BvH says not) (see 5-23-31 Fr. No tubercle or appendage of any sort. Hilum somewhat lateral)

5-10-31 Onobrychis sativa Lamk. Coste I 414, Bon. 93 = O. viciaefolia Scop. BvH 125. BM&CP. 415. Glion. Early fl. Stipules united & opp. lvs; scarious, with 2 distinct brown nerves which project in subulate tips 5 mm long. St. striate & more or less pubescent with loose hairs. Peduncle similar but hairs appressed. Lfts. grayish-green, entire, mucronate, appressed pub. beneath. Calyx pubescent. Standard 13 mm long, keel 11 mm long, wings 5 mm long i.e. shorter?

than calyx which is 8 mm long. Note: <u>not mentioned in manuals</u>: Keel of 2 distinct petals the inner one with lower edge forming narrow keel-like fold, the outer one with lower edge forming broad keel-like fold & enclosing the inner petal. Ovary pubescent.

5-10-31 Sambucus racemosa L. Coste II 230, Bon 137, G 761, BM f C.P. 717 Fl Glion & vicinity. Young lvs give reddish cast to shrub.

5-10-31 ‡ Phyteuma spicatum L. Coste II 490, Bon 197, B & H 284. Fl. Common at Glion <u>Fls white</u> slightly yellowish. But, otherwise seems to agree with desc. in all (Coste & Bon) of P. Halleri All. St. hollow, lfy to summit (tho upper lvs small i.e. 1 in. long). Lvs all def. veiny beneath. stamens ciliate at base. [5-13-34 <u>P. spicatum</u> Note S U K make no contrast in stamens of P. spicatum & P. Halleri.

5-12-31 Potentilla aurea L. Coste II 25, Bon. 99. Fl. Bet Sonloup & Chamby. Perhaps near Gentiana verna L. Several branches from 1 root, each neatly & completely wrapped in the brown stipules of old lvs, some of the petioles also remaining. Upper parts of st. often with alt branches similarly wrapped at base. No plant more than 3 in high. Longest lf 2 cm. Fl 16 mm diam. Bracts almost or quite as long as sepals but narrower. Carpels greenish, styles rich yellow. Filaments & anthers of a rather lighter yellow. Desc. Coste excellent. Petals slightly broader than long with edges meeting at base. Cf. with P. verna L. with petals slightly longer than broad, edges def. separated at base.

5-12-31 Gentiana verna L. (See 5-7-31) Fl. Highway Argevaux to Chamby at about alt. of Sonloup.

5-12-31 Ranunculus nemorosus DC. Coste I 30, Bon 9. Fl Bet. Sonloup & Chamby. Prob. with Gentiana verna. Plants to 11 cm high. Evidently perennial with thickish white roots and many more or less erect filiments & a brown fibres. Lvs & st. with silky almost or quite appressed pubescence. Lvs about 3 cm across, like ill (Coste) of R. nemorosus or R. montanus. Each tooth has minute white dot at tip barely visible to naked eye. Peduncle grooved. Receptacle hairy. Ovaries with beaks curled over into beginning of a spiral, glabrous, but will be looked.

Sepals short, thin & yellowish, inconspicuous, hairy. Fl. 18 mm diam. Petals more than 5 in several cases. (See 5-14-31 which suggests this is a very small spec.)

5-12-31 Crocus vernus L. (See 4-15-31) Fl. abundant Argevaux (snow just melting) Throat with ring of short hairs at level where stamens attached (BM of C.P. & Bon & Coste) but filaments glabrous (Bon says "finement poilues") Anthers only slightly longer than filament

5-12-31 Ranunculus aconitifolius L. Coste I 29, Bon 7 Fl. North of Chamby in wet meadow 18 in high. Sepals purplish & early deciduous. Petals pure white. St. solid

5-12-31 Ranunculus auricomus L. Coste I 29, Bon 9 BvH 9. Fl. North of Chamby. Petals aborted.

5-12-31 Vaccinium Myrtillus L. Coste II 504, Bon 200 BvH 289 Fl. Sonloups-Chamby. Bud reddish and pointed at apex.

5-12-31 Anemone nemorosa L. Coste I 44
Bon 5, B&H 5, G 402 Fl. Sonloup-Chamby.

5-12-31 Chrysosplenium alternifolium L. (See 4-18-31)
Fl. Argevaux.

5-12-31 Primula elatior Jacq. ~~BMofCP~~ Coste II 522,
Bon 206, B&H 302 = P. — Hill 58 B. Fl. Sonloup-Chamby
Easily recognized by the open throat giving it the simple
look of Oxalis. Corolla paler than P. veris & the slightly
darker shade at base not in def. spots. Scape &
petioles perhaps more pubescent than P. veris. Corolla
lobes a little retuse but hardly notched, has tendency
to show slight veining as they wither

5-12-31 Trollius europaeus L. Coste I 44, Bon 9, B&H 12
BMofCP 279. Fl. Sonloup-Chamby. Nectar pit at base of blade
of petal.

5-12-31 Polygonatum verticillatum All. Coste III 352
Bon 301, = P. $\frac{11}{}$ Moench. B&H 474. Bud. Highway Les Avants
Lower part of st with vertical flecks of red and scarcely
angular, with 11 (perhaps more) bracts similar to lvs
but thinner clasping at base. Peduncles with long linear
white bracts.

5-12-31 Polygonatum multiflorum All. Coste III 352
Bon 301 = P. [illegible] — Moench B&H 474. Bud. Chamby. St quite
round except for very slight & short ridges decurrent from
base of lvs. Fls from below upwards in groups of:
2-3-3-2-2-1-1. Perianths now 8mm long. The very short
filaments prob. will be hairy but style is glabrous.
(See 5-18-31

5-12-31 Colchicum autumnale L. Coste III 300. Bon 291,
B&H 485, BMJC. P161. Lvs & unripe fr. Chamby 2 spec
only found in 1 clump i.e. bulbs growing from near
base of an old withered bulb.
(a) Lvs 2, 8"x1 1/8 in; Capsule 1, 1 5/8 in high, pointed
with remains of 3 styles. The 3 carpels adherent below
summit, unequal
(b) Lvs 4, 11X2 1/2 in; Capsules 3.
Note: only whole bulb collected oblique at base as ill
(Coste) Ovules on placentae along edges where the 3
carpels join now

5-12-31 Allium ursinum L. Coste III 339, Bon 298, B&H
489 Bud. Highway bet. Glion & Les Avants. (See 5-23-31

5-12-31 Abies alba Mill. BMJC P. 84 = A. pectinata DC.
Coste III 284, Bon 373. Large trees. No fr or fls Les Avants.

5-12-31 Thymus Serpyllum L. Coste III 87, Bon 248 B&H 361, G 708, BMGC.P.642. Old infl. Sonloup. St trailing & rooting, petioles sometimes long ciliate. But consider T. Chamaedrys Fries since petioles sometimes glabrous, lvs rather abruptly narrowed at base, & nerves not "saillantes" (Coste) and the very slight pubescence of st. tends to be in 2 lines. Longest lf. 6 mm. Certain bud like formations of lvs are infested with grubs.

5-12-31 Asplenium viride Huds. Coste III 695, Bon 380 B&H 586, G 38. Sp in various stages. Sonloup. Cfd with A. Trichomanes L. Segments more fan-shaped, def. petioled, veins much more distinct when held against light, more def. crenate. Whole plant lighter (yellower) green. Note: tips of veins often show thickish & yellowish on upper surface (20X)

5-12-31 Equisetum arvense L. Coste III 712, Bon 385 B&H 571, G 52. Fertile sts. withering & sterile sts just appearing. Prob. near Les Avants or perhaps above Sonloup. Branches of sterile sts. 4 angled.

5-12-31 Genista sagittalis L. Bon 70, Coste I 300, BMGC.P. 421 Fr, & lvs just appearing. Sonloup. (See 6-4-31

5-12-31 Paris quadrifolia L. Coste III 350, Bon 301 B&H 473
Fl. Les Avants. Filaments not def. in ring at base. Ovules numerous in each cell. (See 7-24-31

5-12-31 Ulmus glabra Huds = U. montana With. or Sm.
(See 5-5-31) Unripe fr. Les Avants. Fr now 1½ cm long.
Stamens usually 6. Bark smooth & gray.

5-12-31 Aruncus sylvester Kostel. B.M.J.C.P 362, G 457
= Spirea Aruncus L. Coste II 9, Bon 96. Half grown plant with old fruiting st. woods bet. Glion & Les Avants.
Pedicels 1.5 mm long.

5-12-31 Geum rivale L. Coste II 12, Bon 96, B&H ~~B~~ 137. G.
486 Early fl. Glion on road to Les Avants

5-12-31 Bellidiastrum Michelli Cass Coste II 295, Bon 161.
Fl. High road bet Glion & Les Avants nearer the latter. Lvs to 1¾ x 1¼ in on petioles to ½ in. Lvs 3-nerved from base, more abrupt at base than ill (Coste). 5-16-31 Glion Lvs to 3x2 in, not always def. 3-nerved & often narrowed at base like ill (Coste). Fls 3 cm. diam.

(BvH 832 = O. Galii Vauch. Bon 249

5-12-31 ? Orobanche caryophyllacea Smith Cost III (69)
Fl. Road bet V-M & Glion. St 8 in high, 4-5 mm diam, swollen to 10 mm diam at base. Cross section yellowish with lighter core. St. gland-pub. yellowish to flesh colored reddish. Scales about 15 mm long. Fls 8, upright-spreading, not tightly packed but close enough to overlap 1/3-1/2 if pressed together. Corolla 23 mm long, yellowish, tinged reddish at edges with veins (not very strongly marked) reddish toward edges, gland-pubescent outside & on jagged edges, ~~[illegible]~~, tubular, curved. Stamens inserted within 2 mm of base, hairy at base (more than "un peu" but perhaps not "très") with a few gland- ~~pub~~ hairs to ~~top~~ apex. Stigma maroon i.e. dull reddish not "pourpre noirâtre". The 3 lobes of lower lip of corolla seem equal. Bracts about as long as corolla or a little shorter. Calyx 10 mm (i.e. about 1/2 of tube of corolla consisting of 2 ~~parts~~ sepals widely separated behind but meeting or separate in front. Each sepal with a short obtuse lobe in front (hidden under bract) and a narrow lanceolate lobe (which is all that shows). Fl. has faint pleasant (carnation) odor. Note: this spec. may not be as large as normal as it seemed of secondary growth. Perhaps O. Epithymum DC Cost III 69 (in spite of some characters ascribed to O. caryophyllacea) Bon 243. Query: Is this not = O. rubra, Sm

BvH 333. (See 5-18-31

5-12-31 Valeriana tripteris L. Coste II 263, Bon 145. Bud Road bet. Elion & Leo Avanto. Like ill Coste. The very narrow bracts not scarious on edge. St. smooth & glabrous, the only pubescence being on clasping petioles and lower part & edges of lf.

5-12-31 ? Habenaria bifolia Br. BvH 461 = Orchis — L Coste III 401, Bon 310 Early bud. Bet Elion & Leo Avanto Largest lf 5 X 2¾ in., St. angled with a few bracts below infl. Lip linear & entire. Glands separate not in pouch. Anther cells (a.t.s.) parallel so prob. this and not O. montana. Spur (a.t.s.) very small. (See 5-30-31

SvK I 150

5-12-31 Narcissus ~~poeticus L. Coste III 381, Bon 306~~ angustifolius Curtis ssp exsertus (Haw)
~~BHfCP 186~~ Bud & early fl. Leo Avanto & elsewhere.

5-12-31 Alnus viridis Chaix. Coste III 276 = A. — DC. Bon 289. ♂ & ♀ catkins and old fr. ~~[illegible]~~ village aux at turn of road.

5-14-31 Melittis Melissophyllum L. Coste III 127, Bon 255 B&H. 366 Fl. Glion. Ovules very hairy Corolla almost pure white with very faint tinge of purple on lip Fls. 1-3 in axils of lvs, the pedicels sometimes making a distinct cross X. Lvs subcordate or rounded. (Later flo found in various shades of pink) [5-13-34 Note white globules on anthers

5-14-31 Sanicula europaea L. Coste II 154, Bon 136, B&H 185 Early fl. Glion. Many fls in the heads seems ♂ only.

5-14-31 Populus tremula L. Coste III 272, Bon 289, B&H 429, BM & C.P 225. No fl or fr. Glion. Lvs often broader than long i.e. 2.5 X 3 cm and flattened not pointed at apex.

5-14-31 Euphorbia dulcis L. Coste III 235, Bon 277, B&H 406 Fl. Glion. Root yellowish exactly as ill & desc. (Coste). Scales at base of st. few. St (in one case) 50 cm. Umbels 5-rayed with few or more (in one case 8) fl branches (slender) below. Whole plant looks glabrous but some lvs are softly pubescent beneath. Lvs oblong (or slightly broadened toward apex) to 6.5 X 2 cm., abruptly contracted at base into a petiole of 1-2 mm., dark green with mid-rib def. lighter. Glands orbicular, a little jagged on edges, upper surface a bit fleshy & pock-marked (20 X)

Glands yellowish-green except the central older ones which are def. red. (In these red glands the white skin on under side readily separates from the fleshy upper part). Tubercles vary in shape & size but some cylindrical to 1+mm.

5-14-31 Ranunculus nemorosus DC. (See 5-12-31) Fl. Glion. Thick rootstock horizontal with fleshy white rootlets & filamentous fibrous remains of old sts. Plant like (5-12-31) except 30 cm higher (evidently more normal height), and pubescence varied. Lvs larger (to 7 cm across) and the sinuses bet the cuneate lobes wider. Fls 3 cm diam.; petals always 5. Carpels as (5-12-31) & strongly bordered. Note st. & branches almost naked & and def grooved entire length.

5-15-31 Poncirus trifoliata Raf. B.M.J.C. P.448 Fl. Cult Val Mont farm. Bush high, green & glabrous Petals to 1 in long x 3/4 in wide, concave, narrowed rather abruptly to short claw. Fl 1½-2 in diam. Stamens 25. Ovary pubescent, 8-celled, ovules many in each cell. Stigma spherical, glabrous, on short thick style. Thorns (to 1½ in) single in axils of lvs. (Can be seen in young lvs just appearing)

5-15-31
appearing.) The slightly winged petiole & the mid-ribs now pubescent.

5-15-31 Aceras anthropophora R.Br. Coste III 392. Bon. 310 B&H 463. Fl. Ilion. Lip (20x) covered with minute blisters. At base of lip 2 glabrous enlargements. [Note 5-28-33 The pollen masses seem to have a gland each in one pocket tho' all the manuals say one gland only]

5-15-31 Prunus domestica L. BM of C.P. 366. Fl & half grown lvs. Cult Val-Mont farm. Young twig very short pubescent. Lvs (largest 2½x1 in) pubescent. Pedicels ½ in pubescent. Fl. all seemed solitary. Stipules very narrow 1 cm. long, pubescent with minute teeth gland tipped. Calyx gummy but not pubescent inside. See Coste # 5, Bon. 95 for this and P. insititia L which B.M. of C.P. considers a variety

5-15-31 Tragopogon pratensis L. Coste # 425, Bon. 186, B&H 266, & 867 Fl. Ilion. Heads to 2¾, the exterior rays extending 3/16-½ in beyond bracts (so poss. T. orientalis L.)

5-15-31 Acer campestre L. Coste I 264, Box 61, B&H 101 BM of C.P 467 Fl. Ilion. Corymbs hardly seem subsessile

Peduncle & pedicels as well as sepals & petals hairy. Disk yellow conspicuous & fleshy with filaments seated in depressions. Petioles & blades of lvs softly pubescent and tufts of white hairs in axils beneath.

5-16-31 Ilex Aquifolium L. Coste I 272, Bon 69, BvH 102, BM of CP. 462 Fl. Ilion. Fl Wacen bisexual. Stigmas 2-4. [8-24-34 Unripe fr. In woods on Rd to the Massillon above Planzand. On a alone tree some branches bear lvs entire: others have lvs of usual spiny edged type]

5-16-31 Lonicera Xylósteum L. Coste II 234, Bon 138, BvH 217, B.M of C.P. 726, H 755 Fl. Ilion. Peduncles 15-20 mm, slightly 2-edged. Linear (subulate) bracts longer than or equal to ovaries, suborbicular bractlets 2/3-3/4 as long as ovary (a.+S.)

5-16-31
Shrub with old infl. Brook east of Val-Mont farm. Has char. of Buddleia B.M of C.P 599 & poss escape. (See 8-11-31

5-16-31 Plantago media L. Coste III 147, Bon 259, BvH 379 H 745 Fl. Ilion. Lvs vary from broad to relatively narrow. Peduncles axillary in lower lvs hence from under the rosette. Styles pubescent whole length, in 2 opp. lines. Bracts green, tinged pinkish at edges not "largement scarieuses" & not (a+S) shorter (Coste) than the 4 distinct, obtuse sepals with broad white margins. Ovules 4 in each cell. Anthers white

5-16-31 Bellidiastrum Michelii Cass (see 5-12-31) Fl. Glion. Brook east of Val-Mont. Gfd with below

5-16-31 Bellis perennis L. (see) Fl. Common at Glion. All 3 spec. coll. had several short spreading sts. from base (½-1 in long). These sts. bearing lvs. & short branches (few) which send up the long peduncles. This greatly suggests B. annua L. (recorded only from Mediterranean region) but seems unquestionably perennial, originating from thickish underground runner of 1-1½ in. Plant has strictly basal lvs. besides

5-18-31 Anthriscus silvestris Hoffm. Coste II 219, ~~Bon~~ Fl & fr.
= Chaerophyllum silvestre L. Bon 135, BvH 266, Common, began fl. by 4-1-31. St. practically glabrous tho' somewhat roughish to touch below, reddish ~~tin~~ at base. Fr. ~~without~~ ring of hairs at base (Bon), smooth shining not ribbed, 7mm long. Petals obovate, entire or emarginate but not with inflexed tip. Ill BvH good for habit of infl. in which the earlier umbels are on short (½-1 in) peduncles, the later peduncles being 4-6 in, often with a smaller secondary umbel (on slender peduncle) branching off near the top. Fr. beakless but beak replaced by a ribbed enlargement at tip about .7 mm high, as ill Coste. [See SvK I 481 for ssp with & without ring of hairs at base etc.

5-18-31 Salvia pratensis L. Coste III 101, Bon 250, BvH 357 BMfJ C.P. 639 Fl. Glion But note that in following char. this corresponds with S. nemorosa Crantz "Eu. & W. Asia" B.M.J. C.P. 639 (Not mentioned in Coste, Bon or BvH) Floral lvs ovate, acuminate, shorter than calyx -- Calyx purplish, hairy, resinous-dotted, 2-lipped, the upper lip shortly & sharply 3-toothed, the lower with 2 longer acerose-tipped teeth; Corolla ½ in long — the tube little exserted, the limb profusely resinous-dotted. Note also: racemes often with 2 opp. lateral branches (Ill BvH) and lvs. with no blood-red spots (B.M.J.C.P.). Query does S. pratensis L. (of Coste, Bon & BvH) include S. nemorosa Crantz (of B.M.J.C.P.)? Receptacle (at S.) relatively large & cushiony (1 mm + high)
[Later fls found fully ¾ in long See SvKI 567 as to large & small fls. 5-13-34 Small, ie ½ in corolla, had no pollen in otherwise well developed stamens.

5-18-31 Crepis taraxacifolia Thuill. Coste II 442, BvH 275 = Barkhausia —— Moench = B. — DC. Bon 188. Fl & unripe fr. Glion common. 28 in high. Lvs as desc. & ill B. & H. Note this agrees with 2-25-30 and ? 3-14-30 in stigmas olive green and receptacle alveolate with short fringe of hairs around each depression, Invol. bracts lanceolate-ovate. Note the swelling in axil of many of them which makes them spreading. See also 1-16-31.

5-18-31 Staphylea pinnata L. Coste I 272, Box 63, BM/CP
Shrub in grounds of Temple, Ilion. Lvs. opp. compound,
deciduous. Stipules deciduous, whitish, almost linear,
24 x 4 mm, entire or with a few minute teeth. Lf (inc. pet-
iole 6-8 in all bright green & glabrous except for white
hairs on each side of mid-rib at base of each lft. beneath.
Lfts 5, the ~~2 pairs~~ of lateral ones opp & sessile, each with
one delicate, subulate stipule-like appendage 5 mm
long at base. Terminal lft on stalk of 1/2 in with 2
similar appendages of about 1 mm. Lfts oval or ovate,
about 2 1/3 x 1 1/4 in, shortly acuminate, rounded at base,
finely dentate, each tooth with whitish tip (20X) which
is the end of an inconspicuous vein (one of those which
form network around edge). Rachis grooved above
esp. towards tip. Infl. terminal on new growth, between
2 lvs, pendant; on glabrous bright green peduncle, a
compound cyme with bracts similar to stipules. Infl.
consists with 2 opp branches and a central stalk
(1 in & 2 in) each with clusters of fls (6-18 in cluster). Ped-
icels slender, about 1 cm long, articulated near the
base. Fls 5/8 in high. Sepals almost erect, pinkish
toward tip, outside. Petals erect. Disk conspicuous. Ovaries
2 or 3 with style connate only at tip. Ovules usually 4
in each ovary. (See 7-14-31)

5-18-31

Shrub. Fl. Val-Mont. Cult. ~~Hath~~ Has all the look of cherry and would be thought to be Prunus Laurocerasus L. BM of CP. 372 = Cerasus — Lois Coste II 8 except that lvs have not the brown glands desc by (Coste) (tho' they have a strong peach-pit odor if crushed when young) and the very short calyx lobes are not 3-toothed as desc (B.M of C.P.) Calyx whitish, its lobes abruptly turned upward into a sort of short beak, thickened at the point where turned upward. Lvs to 7 X 3 in, petioles less than ½ in, teeth very low, distant, sharp to touch, ^ in a margin slightly revolute. Infl as long as lvs or shorter. Petals about 5 mm long. Fl with spreading stamens ½ in wide, odorous. Ovules 2.

5-18-31 Lithospermum purpureo-caeruleum L. Coste II 589, Bon 222, B v H 322 Fl. Cult.* Val-Mont. Almost surely this (Certainly this if in Coste) But lowest bracts (to 2 in) are very little shorter than upper lvs & several flower bracts (at least) are longer than fls (Coste suggests not, but BvH says yes) (see 6-3-31) [*Cult = found in flower bed at V-M but seems exactly like spec. found later wild]

5-18-31 Berberis

Fl. Cult. Val-Mont. Shrub about 3 ft with slender, ~~trail~~ arch-ing branches, dark reddish brown, minutely

["Berberis stenophylla" acc to Miss MacEwan 5-19-34]

5-18-31
minutely roughened, not pubescent. Very young green branchlets (just beginning & about 1 in long) puberulent. Lvs ½ in. overall, ×3 mm, seem evergreen, coriaceous, spine tipped, edges entire & strongly revolute, white-glaucous beneath. Spines 3-parted, 2-3 mm. All this suggests B. stenophylla Hort B.M. of C.P. 288 but infl different. Fls rich dark (not quite orange) yellow ¼ in diam., solitary on slender peduncles 1 cm long. Peduncles issue from bud of many scales (poss. some of these scales are really bracts at very base of peduncle) and sometimes 1 or more bracts on peduncle [5-13-34 Same shrub. Fl 1 to several in very short umbel-like raceme. Pedicels bracted]

5-18-31 Caragana arborescens Lam. B.M. of C.P. 411 Fl. Val-Mont farm. Cult. (Note underlinings in B.M. of C.P. refer to shrub at H.H.) Standard is curled backward at sides but claw short and all claws hidden by calyx (about 7 mm. long). Pedicels articulated near top, the pt. of articulation marked with ring of hairs (20x) and a minute spine-like bract. Above this pt. pedicel often bears 2 similar bracts. Lfts to ⅞ in.

5-18-31 Anemone alpina L. Coste I 43, Box 5. Fl. for sale at Ilion and one picked up in street. No root or lower lvs. Fl with [illegible] stamens, seems lacking

in 4 parts. Involucre of 3 sessile 3-partite & much divided lvs. the outer portions decurrent so that base is broad (5-8 mm) & winged. St. & involucre silky with long, white, spreading hairs. Sepals 6, white silky on back. (See 5-29-31

5-18-31: Doronicum Pardalianches L. B & H 2572 = D. — Willd Bor 162 = D. cordatum Lamk. Coste # 297 Fl. Cult Tovaux garden. (See 5-7-31 which prob. was same spec. No basal lvs col. but lf at base of st. has petiole abruptly expanded ~~and~~ at base exactly as in ill B & H. St to 2½ ft. bearing 2 sessile, cordate clasping lvs on st (above the petioled lf) and a similar smaller lf on each of two branches. St now bears a solitary fl head on each of 2 branches (and tip of main at which prob. bore a fl-head broken off). Would be dif. to identify without ill B & H. Evidently not in B. Mif. C.P.

5-18-31 Polygonatum multiflorum All. (See 5-12-31) Fl Glion (Vel-Mont woods path to Temple) Fls from base upwards in groups of 2-3-3-2-2-1. Perianth 15 mm long, tube 3 mm wide, limb 10-12 mm wide. 3 of perianth lobes narrower than the others, all def. green inside with whitish margins, pubescent at tips, spreading. Stamens

5-18-31
Stamens (on short free part & on ridges below) hairy. Style glabrous (B&H says hairy). Fls have faintly the same odor as Podophyllum peltatum of Am. St. of this spec. def. flattened to oval below but not angular.

5-18-31 Bromus sterilis L. Coste III 646, Bon 368 B&H 551, G 164. Fl. Glion (See ? 4-18-30, desc. very like this.) St. above & upper lvs almost or quite glabrous. Branches half whorled, with enlarged glabrous pad in axil (as 4-18-30), to 2 3/4 in usually 1-spikelet but sometimes branched & bearing 2 spikelets. Spikelets now inc. awns about 2 1/4 in. Styles inserted about the middle of pubescent ovary. Lemma has nerves each side of mid-nerve less distinct than mid-nerve & the 2 nerves near edge on each side (as 4-18-30) Lemma bidentate with teeth subulate. Palea def. but distantly ciliate [6-4-34 Fr. Vevey chemin V-M → Montreux under R.R. Spikelets & upper part of st. purple.]

5-18-31? Bromus erectus Huds. Coste III 645, Bon 367 B&H 550, G 164. Fl. Glion. Iden. very uncertain but surely B. and no other seems likely. Prob. perennial with many young shoots coming up beside fl-culm, all whitish mouldy looking (below ground) & more or less entangled in remains of old lvs. Lvs on these shoots folded (2 mm wide when opened out), hairy on back & edges so

as to have def. ciliate look, This growth less than 12 in. high. Culm to 24 in. Lvs 4 mm wide. Lower sheaths & lvs. hairy. Upper quite glabrous. Pedicels 1⅛ in. or less, scabrous, very slender but (a.t.S.) erect. Spikelets 3.5 cm or with. Lemma with mid-nerve strong, the next pair very weak, the next pair strong & the outside pair very weak. Lemma scabrous on the 3 strong nerves but not with "closely appressed hairs on back" (BVH) or "evenly scabrous-pubescent on back" (K) Lemma tapers to very narrow point with awn springing from so near the tip that it has no chance to be bidentate. Palea nearly as long as lemma, scabrous on edges but not ciliate. Lower glume 1-nerved, upper glume 3-nerved. Ligule short (less than 1 mm.) truncate & sometimes denticulate. [See 8-28-34]

5-18-31 Trifolium montanum L. Coste I 347, Box 80 Fl. Glion. Road to Val-Mont. Only spe. yet seen. Very like ill Coste. Pubescence a trifle crisped, close, makes upper parts almost hoary. Fls each with very small bract at base, pedicels (if such) very short. Calyx whitish with teeth green, nerves very light green. Lflts to 35 x 15 mm. (See 5-23-31

5-18-31 Arrhenatherum elatius. Mert & Koch. Coste III 599, BVH 542, G 141, BMJ CP. 114 = Avena elatior L. Box 359 Fl. Glion [8-3-34 Fl. Glion. ♂ fl has rudiment of ovary with no styles or stigmas.

5-18-31 Valerianella carinata Lois (see 4-17-31) Fr. Glion (Tavaux)

5-18-31 Veronica polita Fries Coste III 36, B&H 349 = V. didyma Ten Bon. 237, Barceló 344. Fr. Glion (Tavaux). Calyx 3-nerved (seen plainly from inside), puberulent all over outside but not def. ciliate. Style 1.5 mm, longer than notch. Cells usually 7-8 seeded.

5-18-31 Rumex Acetosa L. (see 5-7-31) Fr. Glion. Valves somewhat sinuate. Pedicels ud. articulated a little below the middle.

5-18-31 Orobanche
Fl. Near (5-12-31) and to general appearance the same. St 11 in high, 6 mm diam, swollen to 10 x 13 mm at base. Fls 31. Corolla 25 mm long. Calyx 12-15 mm and differing from (5-12-31) in that each of the 2 sepals is divided about halfway to base into 2 equal lanceolate, acuminate teeth. All in all, considering: sepals about ½ corolla, stamens distinctly hairy at base, & corolla with lobes of lower lip equal this and (5-12-31) are prob O. caryophyllacea Smith Coste III 69, B&H 332 =

O. Galii Vauch Bon 243. Carnation odor def. But note that stigma is red-brown rather than black-purple (see Coste)

5-21-31 Chrysanthemum Leucanthemum L. BMJCP 760, G 847, B&H 246 = Leucanthemum vulgare Lamk. Coste II 341, Bon 166 Fl. Glion. St very angulate-ridged, def. pub. below with scattered hairs to top. Few hairs on all lvs beneath, esp on lower lvs. Lvs much more glaucous & thicker than plant as remembered at H H & N fld. Ligule achenes with def crown not always complete. This suggests L. subglaucum de Larambergue Coste II 341 (not mentioned in other manuals & hence prob inc in C. L—) But teeth of lvs not absolutely regular. Heads 4½-6 cm diam [Counterpart] ssp montanum Vaudin S&K I 685

5-21-31 Hieracium murorum L. Coste II 473, Bon 194, B&H 278, G 874 Fl. Glion. Common. St to 30 in high. Heads 9-22 on main st. with about 6-9 on the branch from axil of the 1 leaf near top of st. (luxuriant plants sometimes bear 2 such lvs & branches) Basal petioles shaggy with long white hairs, and often reddish. Hair denticulate (20X). Ident. by careful use of key (Coste) Lvs like ill (Coste) Note esp the almost auriculate teeth at base in many lvs. Petioles widened at base. Heads to 3 cm wide. St. hollow. Whitish

5-21-31
whitish, short pubescence under the black, glandular hairs at top of st. obscurely stellate (20x)

5-21-31 Holcus lanatus L. Coste III 600, Bon. 360, B&H 542, G 137 = Notholcus —— Nash B.M. of C.P. 115. Fl. Glion
Ident. sure acc. to Coste as axis of spikelet is glabrous except for very few hairs under lower floret. But note that first spikelet is 5.5 mm long (G. says 4 mm) counting awn of 2nd floret which projects .5 mm. No sign now of "lemmas ciliate at apex" (G)

5-21-31 Geranium Robertianum L. Coste I 245, Bon. 57 B&H 95, G 535 Fl. Glion.

5-21-31 Knautia arvensis Koch Coste II. 275 = K. —— Coult Bon. 147, G 764 = Scabiosa —— L. B&H 230 Fl. Glion
The long hairs on st. & lvs tubercle-based and many esp. on lower part of st. have bases black. Invol. bracts vary greatly in size. Teeth of calyx 7-11.

5-21-31 Aquilegia vulgaris L. Coste I 54, Bon. 10, B&H 13, G 405, B.M. of C.P. 281 Fl. Glion. Stamens somewhat exerted (B.M. of C.P. says not) Sterile filaments broad,

[Poa ssp. alata Koch See 5-28-33]

thin ruffly, erect & closely applied to follicles.

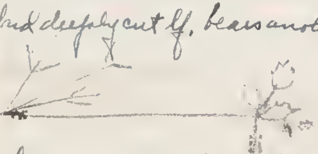
5-21-31 Crataegus monogyna Jacq. Coste II 66, Bon 102 BM JCP. 376, B&H 153 (see S 462) Fl. Glion. Calyx lobes strongly reflexed. Anthers pink-brown. Lobes of lvs entire except at tip. Stipules sickle-shaped to 7 X 3 mm, quite entire, never on ~~[illegible]~~ concave edge, same firm texture as lf. Young shoots glabrous & lvs almost so. Note pockets where nerves branch beneath.

5-21-31 Trifolium minus Relh Coste I 341 = T. procumbens G.G. pro p = T. minus Rchb Bon 77 and pro p = T. dubium Sibth. S 570. B&H 119 (= T. minus Sm) Fl. Glion along R.R. Plant 6 in high, stiffly erect but sts slender & peduncles filiform. Fls. pale & standard def. ridged down back, about 3.5 mm long. An average looking head contained 20 fls.

5-21-31 Ranunculus repens L. Coste I 31, Bon 9, B&H 10, S 397 Fl. Glion

5-21-31 Euphorbia amygdaloides L. (see 4-15-31) Fl. Glion "Coques sillonnées" (Coste) refers to very shallow obscure groove on back of valves. Seeds brown 3 X 2½ mm with caruncle large (an add'l 1 mm) set obliquely.

5-22-31 Actaea spicata L. Coste I 55, Bon 11, B&H 15 Fl. Glion. General appearance very like Am. spc. Note that in spec. col. a peduncle of 6½ in rises opp one of lvs, bears a small 3-~~parts~~ foliate lf, opposite which is a short raceme (1½ in overall) forming a right angle with peduncle. Bet. lf & raceme a continuation of original peduncle 1¼ in bears another raceme in bud which at its base, subtended by a tiny simple but deeply cut lf, bears another tiny raceme in bud.



Another bud of raceme is appearing in axil bet. lf & main peduncle, and still another lower down in axil bet. main st & a lower lf. See ill B&H for similar idea but not that for ill of lvs. Coste much better than B&H. See also ill. Bon.

5-22-31 Sorbus scandica Fries Coste II 73 = Aria — DCne Bon 103. Fl. Glion woods at edge of rd just west of V-M. Lf exactly as desc. & ill Coste. Infl very firm, with slight greenish cast. Whole effect very handsome.

5-22-31 Juglans regia L. (See 5-9-31) ♀ fls. Glion

5-22-31 Viburnum Lantana L. (See 5-3-31) Fl. Glion
Peduncle ½ in. Ovary oblong, flattened, ovule pendant.

5-23-31 Ranunculus lanuginosus L. Coste I 29, Bon 9 Fl & young fr. Glion path to Chillon. Exactly as desc. Coste except achenes not "fortement" bordered & beak as ill. Cfd with following. Lvs softer to touch (pub. both sides), the divisions less narrow at base & less deeply lobed & cut. (See 7-22-31

5-23-31 Ranunculus nemorosus DC. (See 5-12 & 14 -31) Fl. Glion path to Chillon. To 50 cm high. Lvs. obscurely blotched white.

5-23-31 Allium ursinum L. (See 5-12-31) Fl. Very frequent in woods bet Vat-Mont and Chambaband. St to 12 & more inches high, with 2 obtuse & 2 acute angles, the latter sharply edging the the longest side thus ⏢. St. smooth but pedicels papillose roughened (20X). Stamens shorter than perianth. Anthers white

5-23-31 Castanea sativa Scop. Coste III 255 = C. vulgaris Lam Bon 285. C. sativa Mill. BM & CP. 232. No fl or fr. Chambaband (Glion) Lvs & young st resinous dotted! Sticky to touch.

5-23-31 Neottia Nidus-avis Rich. Coste III 410, Bon 309 = N. —— L. B&H 456. Fl. Glion path to Chillon.

5-23-31 Orchis maculata L. Coste III 404, Bon 311, B&H 460 Fl Glion. Frequent at Chamtabaud. Ident. sure but note bracts (lower ones a little longer than ovary not as long as flo & upper ones about as long as ovary) are obscurely nerved (lower 3-nerved) not at all "en réseau" (Coste). ~~Ovary~~ Spur 2/3 or more as long as ovary. (Bon says about same length). St, while not def. hollow, has open places in center, and has small lanceolate, spreading lf-like bracts quite or almost to top. Lvs profusely marked with oblong horizontal blotches. Fls in varying shades of pale lilac. Pollen green. (See 5-29-31

5-23-31 Cephalanthera pallens Rich. Coste III 412, = C. grandiflora Babingt. Bon 308 = C. latifolia Janchen B&H 455 Bud (almost open) Glion path to Chillon. Pollen white

5-23-31 Centaurea montana L. Coste II 389. Bon 180 BM&CP791 Early Glion path to Chillon. All lvs comp. decurrent. 1 spec (of 2 col.) has buds for 3 heads.

5-23-31 Luzula silvatica Gaud. (See 5-10-31) Fr. well advanced. Glion path to Chillon. Seeds without tubercle or appendage of any sort at either end. Hilum somewhat lateral.

5-23-31 Trifolium montanum L. (See 5-18-31) Fl. Glion near Chamband. Fl more advanced than 5-18-31.

5-23-31 Lathraea Squamaria L. (See 4-18-31) Fr. Glion in V-M grounds & elsewhere. Capsule ivory-white, projecting somewhat beyond calyx, usually bearing remains of style and withered corolla. Seeds very dark and honey-comb pitted

5-24-31 Tamus communis L. Coste # 357, Bon. 383, B&H, 471 ♂ fls. Glion path to Veytaux. St. somewhat striate & petioles def. ridged in line with veins of lvs. Petiolar glands ref. to (Coste) must be the 2 thick cylindrical (2mm or more long) stipular-like appendages at very base. Rudimentary style 3-parted at top.

5-24-31 Paulownia tomentosa Steud. B.M. of C.P. ~~672~~ 676, 9723
Cult.
Fl. Montreux (Fl. col. from tree at Territet in April). Corolla gland-hairy outside. Wings of seed (20X) white

5-24-31 white, transparent, irreg. beautifully flutted.

5-24-31 Geranium phaeum L. Coste I 249, Bon 57, B&H 94. Fl & young fr. Glion Path to Veytaux at watering trough junction with rd from Chambaband. St. 24 in high. St. pubescent with longish white spreading hairs and, increasingly toward top, with also shorter gland-ular pubescence. Lvs all alt (i.e. only 1 at each node of ap. peduncle) differing in this from G. silvaticum L which has upper lvs opp each subtending a branch usually with a 3rd peduncle of flowering branch in between. Sepals more oblong than G. silvaticum & their gland-pub never black tipped. Filaments as broad at base (1 mm) as G silvaticum and hairs much longer. Glands bet. stamens very large. Petals slightly crenate. Fl. 2 cm diam, flat like potato fl. [6-8-34 Note that all found to date are doubtless var lividum DC. S & KI 424. Miss MacEwan says she has one in garden with fls almost black]

5-24 31† Silene nutans L. Coste I 176, Bon 48, B&H 65, G 385. Fl. Glion in wall bet Mont-Fleuri and Val-Mont farm. Calyx 10-nerved, gland-pub. & sticky to touch (as is most of st.) 12 mm high (of which teeth 2-3 mm), tubular, widest in middle (3-4 mm). Some of teeth, of ligule, shorter than others & with thin white margins (do not seem strictly alternate). Claws exserted 2-3 mm. Fl 2 cm wide (& less), blades cut almost to base in wide spreading V. Styles pro-jecting 15 mm. Stamens reaching about to throat. (But poss. stamens not developed) Fls white with claws & underside of petals greenish. (B&H) Leavy

5 mm high, the upper 1/3 finely granular (20X), the lower 2/3 smooth. Carpophore pubescent 3 mm high. Lvs subtending lower peduncles (are these the bractees which Bon says should be 3 mm or less?) to 6 mm wide; upper ones narrower

5-24-31? Viola cornuta L. Coste I 157, Bon 37, BM of CP 508
Fl. Cult Garden Val-Mont (from dining-room). Fl large, bluish-purple, appendices of sepals 4 mm (at most), slender, spur 12 mm; at lvs truncate or slightly cordate (not narrowed at base). This acc. to Bon 37 points to V. cornuta L. Also stipules ciliate. BM of CP 508 (But at. lvs acute & not at all acuminate B.M of C.P.) Note however stipules more like ill. V. sudetica Willd Coste I 157 & their small lower lobes might be called reflexed. Plant glabrous. V. sudetica Willd. not given Bon, perhaps = V. lutea Huds B&H 58 given as form of V. tricolor L. Lower petal with touch of white at very base, no yellow. Petals stand apart without overlapping

5-24-31? Crataegus
Shrub (perhaps 10 ft) in fl. & with every look of C. but only a sprig with lvs. collected. Cf. with C. monogyna of (5-21-31) & C. oxyacanthoides (5-28-31) Highway bet Chambaud & Veytaux near where it crosses "log-shoot". Young growth pub. with straggling hairs. Lvs thin

5-24-31
thin, deeply lobed into 5 or usually 7 lobes, the sinus above the lower pair being wide & cut almost to mid-rib. All lobes entire on sides & dentate at tips, the terminal one somewhat 3-lobed at tip & the basal pair somewhat 2-lobed at tips. Stipules semi-sagittate sickle-shaped 8 x 3 mm, dentate all around, same texture as lf. Lf pubescent both sides, blade decurrent so that petiole is slightly winged. Thorns single, sharp 6 mm long and (as 5-21-31) when young with rudimentary scales.

5-26-31
Shrub no flo or fr. Cult at house on rd west of Colin where path to Gorges de Chaudron takes off. Lf 1½ x 2⅛ in, truncate or slightly deltoid-subcordate at base, palmately veined & deeply cut into 3 lobes, the middle oblong, & the 2 lateral broader & again lobed toward base. Each of the 3 main basal nerves later branch into 3 nerves each of which terminates in one of the 3 main obtuse teeth ~~which~~ at tips of lobes. Very young lvs covered with yellowish waxy granules. Lvs thin, dull almost glabrous except on short ciliate edges.

5-26-31 Erucastrum obtusangulum Reich. Coste I 81, Bon. 22. Fl & young fr. Rd west of Colin opp. saw-

mill. St to 2 ft high. Exactly as dec. vill (Coste) except except 2 sepals (in bud) are very slightly saccate at base & beak (a.t.s.) looks cylindrical and occasionally the lowest fl. has tiny pinnatifid bract at base. Largest pod now 33 mm (of which 4 mm is beak) on pedicel of 15 mm. Fls 9 mm high x 15 mm across. Lvs smell very foul when in water

5-26-31 Listera ovata R.Br. Coste III 410, Bon 309, B&H 455 Fl. Glion. Pubescence on st. & infl glandular & sticky.
Seen commonly later.

5-28-31 Galium Mollugo L. Coste II 248, Bon 141, B&H 221, K 749, B.M.G.C.P. 710 Fl. Glion common. St to 3 ft t., nodding in early growth before anthesis. Lvs with very fine upward pointing roughness & on edges. Lvs & petals ending in fine point. Fls have mealy odor

5-28-31 Cardamine impatiens L. Coste I 106, Bon 27 B&H 33 Fl. Glion St. angled. Lfts on lower lvs to 1-½ in. Petals none.

5-28-31 Centranthus ruber D.C. Coste II 260, Bon 144, B.M.G.C.P. 730 = Kentranthus — D.C. B&H 225 Fl. in walls Glion. Nat-uralized or escaped.

5-29-31 Dentaria digitata Lamk. Coste I 107, Bon 28
Fl. Sonchaux – Caux. Occasional with D. pinnata (abundant) L vs pale shining green beneath but not glaucous as in D. pinnata.

Coste II 579, Bon 220

5-29-31 Cerinthe glabra Miller S&KI 548 = C. alpina Kit
Fl. Sonchaux – Caux. Bon 220 evidently includes this in C. aspera Roth = C. major L. since some of calyx lobes are very finely toothed (20X) But it agrees exactly with Coste II 579 C. longiflora Viv = C. tenuiflora But which Coste considers a variety of C. alpina Kit. Lvs entire, blotched with lighter color & covered above with whitish tubercles just visible to eye, making lf slightly rough to touch and (20X) on older lvs looking like a flat scale. Corolla 12 mm long. Filaments 1.5 mm, anthers 6 mm. Corolla teeth short, triangular, reflexed. Corolla yellow (more greenish at tip) with reddish band above middle. 2 of sepals rather larger than the other 3. (See 7-22-31

5-29-31 Veronica urticaefolia Jacq. Coste II 34, Bon 235
Fl. Caux short way east on rd to Sonchaux. St & lvs finely but very def. pubescent. Peduncles, pedicels, bracts & calyx finely gland-pubescent. Corolla still more finely pub. (sometimes gland-pub.) on back. Calyx lobes 4, somewhat unequal. Pedicel at anthesis

about equal to the narrow linear bract. Corolla whitish tinged & nerved with rosy-lilac. Hoary pubescent

5-29-31 ? Saxifraga rotundifolia L. Coste II 131 Bon 115. Fl. Sonchaux-Caux. Very like ill Coste except lvs less pointed at apex. Plant 45 cm lfy. Plant bears many long petioled lvs at base, mostly to one side of main fl. stem (not in def rosette) and from among these lvs about 3 more slender & shorter fl. sts. But st. not hollow, ~~not~~ no "rebord membraneux étroit" visible (20X) and styles (a.t.S.) are curved so as to face each other, (spreading later) no other S. in Coste or Bon seems possible. And tho Bon does not give this for Switzerland see Schinz & Keller 148 S. rotundifolia L var glandulosa Griseb. St def hairy, pub-gland above. Lvs less hairy tho somewhat so both sides. Petals 8-9 mm long, the blade narrowly truncate at base with claw .7 mm long. & about as wide. Found frequently later, Gorge du Chauderon and elsewhere.

5-29-31 Soldanella alpina L. Coste II 533, Bon 209 Fl. Rochers de Naye. Lvs dotted both sides (20X) (Note S. pusilla Baumg SvK 270 not given Coste or Bon.) Corolla 12-10 mm long & cut to middle or below.

5-29-31 Viola biflora L. Coste I 156, Bon 37 Fl. Path Rochers de Naye to Sonchaux. In woods. Sepals short ciliate

– Others spec. col same time & place with older lvs make this surely G. montanum L. Terminal segment to 5 cm wide.

(= Sieversia) — R.Bz. S&K 174

5-29-31 ? Geum reptans L. Coste II 12, Bon 96 Fl. Rochers de Naye. Stout brown root almost horizontal, no sure signs of stolons. Lvs more like ill (Coste) than like ill of only other poss. G montanum L., and terminal lobe not at all heart shaped. Style very white silky below middle, above middle naked & yellow. [Note Rx. Naye 2045 M comes just within the 2000 M range given by Coste]

5-29-31 Draba aizoides L. Coste I 116, Bon 29, B&H 43 Fl & young fr. Rochers de Naye.

5-29-31 Helianthemum ~~montanum Vis Coste I 149~~ Early fl. & buds. Rochers de Naye. If in Coste is H. montanum Vis (var which = H. italicum Pers) I 149; if in Bon is H. oelandicum DC. 36. But none of these names found in B. & K.; # 249 and this is poss H. alpestre DC. 249 in one of its forms. St. woody at base, low, procumbent, reddish & shining. Lvs opp. no stipules. Lvs oval-elliptic to 13×7 mm (but many shorter & narrower, edges somewhat revolute, entire, rounded-obtuse at apex & tapering into petiole (1-7 mm long) Lf surface mostly glabrous & almost shining but on both sides and on edges are tufted longish white hairs (i.e. several hairs springing from same point) Inf. short. st & calyx silky tomentose. Sepals 5, the 2 outer

very small. Petals yellow. Stamens all fertile, anthers with touch of red. Stigma almost fringe lobed, Style enlarged at top, no sign of "contourné en cercle à la base" (Coste). Ovary pubescent. (See 6-12 & 30-31

5-29-31 Viola calcarata L. Coste I 157, Bon 37. Fl. Rochers de Naye. Lvs small, mostly about 10-12 mm & varying from ovate to narrowly oblong, with teeth sometimes obscure. Stipules hard to see in the tufts of lvs but seem rarely simple. Calyx lobes finely denticulate on scarious edge & auricles irreg & obtusely toothed. Petals violet with few darker rays at center of 3 lower petals. Lateral petals clavately ~~[illegible]~~ bearded, lower petal yellow at base & its claw thickly pub. with fine hairs in trough. Cfd with V. cornuta (see 5-24-31)

5-29-31 Daphne Mezereum L. Coste II 214, Bon 275, B&H 401 & 590, BM & CP 528 Fl. Rochers de Naye just below hotel on path to Sonchaux.

5-29-31 Ranunculus montanus Willd Coste I 30, Bon 9 Fl. Rochers de Naye. St. about 3 in high. Very like ill Coste. Hairs on receptacle seem few.

5-29-31 Convallaria majalis L. BM&CP 169, G. 293, B&H 475 = C. maialis L. Coste III 351, Bon 302. Fl. Collected by proprietor of hotel Sonchaux "at foot of Rochers de Naye".

5-29-31 Primula Auricula L. Coste II 522, Bon 206, BM&CP 583 Fl. Rochers de Naye. Only 1 spec. found, Scape 1 in. shorter than lvs.

5-29-31 Primula elatior Jacq. (see 5-12-31) Fl Rochers de Naye.

5-29-31 Ranunculus aconitifolius L (see 5-12-31) (a) Fl Rochers de Naye above hotel. St. 6-9 in. No other poss in Coste tho carpels (a. t. S) tapering ~~rather abruptly~~ & almost straight (not at all like ill Coste but rather like ill of R. lateriflorus Coste I 26. (See Later 5-29-31)
(a) Fl. frequent on path thru woods to Sonchaux. Nectar pit a short but def. tube.

5-29-31 Homogyne alpina Cass Coste II 287, Bon 160 Fl. Rochers de Naye. ~~Fert~~ ♀ fls few, the truncate tube sometimes with narrow blade-like appendage. ⚥ has stigmas & anthers red while corolla is much lighter.
[8-6-34 Fl. Jaman. Pappus white]

5-29-31 Petasites niveus Baumg. Coste II 286, Bon 160 Fl. Rochers de Naye near hotel southern rim. Fls mostly ♀ filiform tubular with 3-4 toothed apex; and a few ⚥ tubular (not filiform) fls with 5 lobed apex. Young lvs 2 in long showing char. plainly. Note teeth are

glabrous at tip contrasting with white tomentum of under side. lvs (a. + S.) with some tomentum above.

5-29-31 Potentilla salisburgensis Haenke Coste II 26 = P. alpestris Hall. Bon 99 = P. Crantzii Beck B&H 143 Fl. Rochers de Naye summit. But bracts narrower & shorter than calyx lobes. Edges of petals separated to base as in P. verna (4-25-31 [redacted] & 5-30-31) with which cf. Plant greener than P. verna, lfts not as tapered to base. Note bracts are spreading horizontally as sepals close over young fr.

5-29-31 Lathyrus luteus Peterm. Coste I 399, Bon 89 Bud Path from R. de Naye to Sonchaux on Alps above woods. St 1 ft high, almost sq. St. & lvs beneath softly hairy. Calyx with 3 lower teeth (to 6 mm long in bud) lanceolate, very acute, pubescent inside & def. constricted at base (where joined to tube) very apparent in bud and differing from the 2 short upper teeth. Style more straight, turned up only at the callus looking end. Style flattened front-to-back, broad (.6 mm). Ovary glabrous, ovules numerous

5-29-31 Anemone narcissiflora L. Coste I 41, Bon 5 Bud Rochers de Naye.

5-29-31 Potentilla aurea L. (see 5-12-31) Fl. Rochers de Naye—Sonchaux.

5-29-31 Anemone alpina L. (See 5-18-31) Fl. Rochers de Naye summit (3 in high) and down as low as Sonchaux (9 in high). Fl complete with pistils & stamens, all of latter anther bearing (Bon) Sepals white or with outside tinged bluish. Rootstock thick & base of st. brown with encircling scale

5-29-31 Linum catharticum L. Coste I 230, Bon 54, B&H 87, G 532. Fl. Sonchaux. Lower lvs crowded at base of st. oval 5 mm long; others widely separated elongated to 9 mm Lower lvs only scabrous on edges & lower part of st roughened. As far as visible in unripe fr. "false septa incomplete & ciliate" (G)

5-29-31 Ajuga reptans L. (See 4-15-31) Fl. Sonchaux Corolla pure white.

5-29-31 Hieracium Auricula L. Coste II 459, Bon 192. Fl Sonchaux—Caux. Fl lemon yellow. Invol 7 mm high & head 10-11 mm overall. A few small narrow bracts just under head. Top of scape "poilus-cotoneux" (Bon) the fine down being minutely starry.

5-29-31 Trollius europaeus L. (see 5-12-31) Fl.

above Sonchaux. Note unripe carpels have 2-3 saf-fly wings on outside edges.

5-29-31 Tozzia alpina L. Coste III 60, Bon 241 Fl. Sonchaux-Caux. Root not collected. Fls about 1 cm overall. Ovary glabrous; ovules seem more than one.

5-29-31 Arenaria trinervia L. Coste I 208, Bon 50, B&H 72 Fl & young fr. Sonchaux-Caux (See 5-16-30) Seed "with a little white appendage at hilum" (B&H). 3 nerves can usually be discerned on sepals tho' B&H says "1-nerved". Ciliation on lvs very short above petiole. Lvs & sepals more or less white punctate (20X). Petals only ½ as long as sepals.

5-29-31 Lonicera alpigena L. Coste II 235, Bon 138. Fl Path Rochers de Naye to Sonchaux in woods. Seems only ident possible but all green growth: st. petioles, lvs, peduncles, bracts, edges of calyx lobes gland-pubescent. (Char. not mentioned Coste &c for any L.) Upper part of peduncles as well as lvs (esp. beneath) have also longer straight white spreading hairs. Old wood light gray. Lvs no thicker than L. Xylosteum. Peduncles 2-3.5 cm. Fl 15 mm overall, corolla about 12 mm long. Corolla almost glabrous outside, somewhat pubescent

5-29-31

pubescent inside towards base & lapses at base of lower lip. Filaments very pub. & style similarly below. Sometimes the 2 fls merged into one but sometimes ovaries def. distinct at top. Corolla mahogany reddish-yellowish. Specimens came from bushes (at least 2) considerable distance apart. Peduncle with 2 def. edges. Poss. a hybrid bet. L. alpigena and ? Outside of ovary glabrous.

5-29-31 Lonicera Xylosteum L. (See 5-16-31) Fl. Caux. Cf. with above. Outside of ovary glandular & somewhat pubescent. Peduncles sparsely soft-hairy & very slightly glandular.

5-29-31 Ribes nigrum L. Coste II 123 Box 113, B&H 171, H #52 BMQC.P. 335 Fl at corner of barn at Sonchaux. Perhaps cult [6-8-34 Fl & young fr at same place and also by shed Caux → Naye. Note: glands on lvs just visible to eye]

5-29-31 Ribes petraeum Wulf. Coste II 124, Box 113. Fl woods above Sonchaux on path to Rochers de Naye. Fls reddish 4 mm high x 5 mm diam. bbsessile (Coste) Lvs. rugose (a. & s.) pub. above & on nerve beneath, shining bet. nerves beneath. Largest lf now 5 cm. broad. (See 8-27-31

5-29-31 ??? Potentilla heptaphylla Mill Coste II 20 2 prob = ~~P. intermedia L. (arguably by) Bon 99. G 483.~~ Fl B. R. B. above or below Sonchaux [~~not seen as stated in giving petiole uncertain. See S&K I 369~~ [See 6-8-34] "P. parviflora Gaudin S&K I 369. prob the same as this"]

5-29-31 Veronica serpyllifolia L. Coste III 38, Bon 236, B&H 346 G 728 Fl & unripe fr. Style 3 mm long. ~~But~~ capsules with short glandular ciliation [as does S&K I 594]

5-29-31 Pedicularis foliosa L. Coste III 54, Bon 240, Fl Sonchaux-Caux. & seen commonly from train above Caux. St glabrous & almost naked to shortly below infl. Petioles very pub. on upper side, glabrous beneath

5-29-31 Astrantia major L. Coste II 154, Bon 135, B&H 185, BMJCP. 562 Fl. Sonchaux-Caux. Fl mostly ♂ with few ☿

5-29-31 Cystopteris fragilis Bernh Coste III 690, Bon 379 B&H 590, G 43 Sp. Rochers de Naye—Sonchaux.

5-29-31 ♀ Aspidium Filix-mas Sw. G 42, B&H 583. = Polystichum — Roth Coste III 687, Bon 379 Sp. on loc. just unrolling

5-29-31
unrolling and dead lvs with remains of sp. from last season. Rochers de Naye — Sonchaux on rocky ledge well above Sonchaux (hence perhaps not typical specimen) This seems only poss. acc. to Coste tho and lvs like ill Coste (but not like ill B&H, & Bon nor as remembered in N fld). "Basalscales lance-linear, caudate-attenuate" (G).

5-29-31 Asplenium viride Huds (See 5-12-29) Sp. Rochers de Naye — Sonchaux.

5-29-31 Chaerophyllum Cicutaria Vill Coste II 222 = C. hirsutum L. Bon 134. Fl. Field just below Sonchaux Fl pinkish

5-29-31 Aposeris foetida Lessing Coste II 411, Bon 183 Fl & young fr. Sonchaux-Caux. Slight rusty tomentum at base of fl head.

5-29-31 Hieracium Pilosella L. Coste II 437, Bon 191, B&H 277, G. 872 Fl Sonchaux-Caux. One scape (of several) bore 3 buds.

5-29-31 Lychnis dioica L. G 384, B&H 67 = L. diurna Sibth Coste I 188, Bon 45. Fl. & Pastures along Sonchaux and in bud at summit of Rochers de Naye. St. & upper lvs reddish. Whole plant velvety and upper part more or less gland-pub. besides [Later spec. found with fl pink; st & lvs entirely green.

5-29-31 Habenaria conopsea L. B&H 462 = Orchis — L Bon 311 = O. conopsea L. Coste III 403 Fl. Sonchaux, pastures just below hotel. Ovary 5 mm, the spur 15 mm curving, slender, acute. Bracts ovate, acuminate, nerves too obscure to count. No odor noticed. Glands rather more than ½ mm long.

5-29-31 Orchis ~~palustris Jacq.~~ Coste III 402, Bon 311 (See also desc. of O. laxiflora Lam B&H 460 in which this may be included) Fl. Sonchaux, frequent in fields of neighborhood. Difficult to be sure of ident. Suggests O. mascula L (See 4-22-31) but spikes longer & heavier (one had 35 fls) & fls of a dark rich reddish purple & lower bracts with more than 3 nerves. As bet. O. palustris & O. laxiflora Lamk, specimens all have middle lobe of lip longer than lateral lobes (and notched as desc. with Coste) & lips more or less spotted at base (sometimes only in cavity leading

[6-9-34 &
[5-15-34 R.B.K. look for this 6-10-33 in same spot & elsewhere and after seeing many O. masculus think this was prob. O. masculus L.]
5-29-31

leading to spur) But spur sometimes cylindrical and "attenue-obtus" is often very def. enlarged at tip & pointing upward as ill. for O. laxiflora

5-29-31 Orchis maculata L. (See 5-29-31) Fl. Sonchaux.

5-29-31 Ranunculus
Fl. Almost surely in pit shortly above hotel Rochers de Naye. Roots thick & fleshy. Plant 6 in high, glabrous. Basal lvs of 3 sessile lfts, the 2 lateral deeply lobed at base or often 4 distinct lfts all dentate to near the cuneate base with obtuse teeth. St. lvs similar sessile with lfts stalked (of lvs subtending lowest branches) or sessile (of lvs subtending upper branches) Lvs all glabrous. Lfts 4 x 2 cm, irregularly oval. Lower st. lfts as large as basal ones, the uppermost small linear, entire. St with 2-3 branches terminating in 1-3 fls. Pedicels short (not more than 2.5 cm usually much less) softly pubescent, not ridged. Fls 12 mm across. Petals white with no scale over nectiferous gland.* Receptacle hairy, carpels glabrous, thick, narrowed to a short straight beak with a hint of a bulge at base of beak on inside. No sign (a. & S.) of border. Sepals pubescent

caducous. *(gland merely a naked depression)
In short this has habit of R. aconitifolius (for which it was at first mistaken & which prob. was growing near by see R. aconitifolius 5-29-31 "a") but gland as desc. by Coste for R. alpestris L. also lvs rather like ill. Coste for R. alpestris but achenes not as desc. for either or as found in R. aconitifolius (5-29-31).

5-29-31 Valeriana tripteris L. (See 5-12-31) Fl. Frequent in woods path Rochers de Naye - Sonchaux.

5-29-31 Arabis Turrita L. (See 4-22-31) Fl. with above. Like desc. of (4-22-31) & cfd with 6-3-31.

5-29-31 Sesleria caerulea Arduin Coste III 545, Bon 351 B&H 564. Fl. Rochers de Naye summit. Lvs. rough on edges. Blades of st.-lvs less than 1 cm. Glumes yellow. Lemmas blue and tooth with short awn in center (Bon. & B&H rather than Coste)

5-29-31 Centaurea montana L. (See 5-23-31) Fl. Sonchaux 3 heads.

Coste III
5-29-31 Polygonum viviparum L., 205, Bon. 273 B&H 399, G 359. Fl. Rochers de Naye — Sonchaux. 1 spec. only col. exact locus forgotten. Sepals sometimes 4 & stamens 6. Sepals white. Anthers purplish. Lower half of raceme all bulblets from which lvs are appearing. Bulblets sessile but fls all stalked. Lvs gray pubescent beneath with midrib glabrous, yellowish, prominent.

5-29-31 ? Salix retusa L. Coste III 266, Bon. 288 Young fr. Prostrate. Rochers de Naye, summit. Lvs to 11 X 8 mm (with petiole 1.5 mm), glabrous & shining above, few hairs (a.t.s.) beneath, obovate, retuse, entire except for few obscure toothlets at base. Catkin short (last years remains 2 cm overall). Scale retuse (like ill Coste) slightly hairy and as long as the unripe capsules. But gland only one & about as long as pedicel even in old fr. No other poss in Coste & Bon. (See 6-30-31

5-29-31 Calluna vulgaris Salisb. Coste II 509, Bon. 301, B&H 295, BM/C.P 573 = C. — Hull & G 37 Old fr. Rochers de Naye — Sonchaux. Never seen again 6-17-33] See 8-3-34

5-29-31 Polygala vulgaris L. (See 5-9-31) Fl Pasture above Sonchaux. Fr developed enough to show char.

5-29-31 Gentiana lutea L. Coste II 559, Bon 214. Lvs & old st. with fr. Sonchaux. Remains of corolla def. divided to base. Anthers free.

5-29-31 Polypodium vulgare L. Coste III 683, Bon 378, BVH 579, A 34, BMJCP 63. Sp. Sonchaux–Caux.

5-29-31 Potentilla Tormentilla Neck. Coste II 22, = P. — L. Bon 98 = P. erecta Hampe BVH 142. Fl. Sonchaux field below hotel. Lvs with silky appressed hairs on veins beneath but hardly "velues" (Coste). Receptacle def. hairy.

5-29-31 Globularia cordifolia L. Coste III 169, Bon 264. Withered infl. of last season. Rochers de Naye Summit. Calyx very like a labiate with 3 teeth above, 2 teeth below, densely bearded in throat and on 4 angles of tube outside.

5-29-31 Plantago montana Lamk Coste III 148, Bon 260 Fl. Rochers de Naye Summit. Bracts dark with wide green mid-rib which projects more or less into stubby point. Loose hairs between bract & calyx at base. Cfd with P. lanceolata L. which it resembles in coloring of infl.

5-29-31 Viburnum Opulus L. Coste II 231, Bon 137, B&H 216, B.M.G.C.P. 721 (gives dif of Am. form) Fl. Caux. (see 8-5-31)

5-29-31 Arabis alpina L. (see 4-25-31) Fl. Rochers de Naye at very summit. Cfd with cult plants at Val-Mont.

5-30-31 Laburnum alpinum Griseb B.M.G.C.P 417 = Cytisus alpinus Will Coste I 303, Bon 71 Fl. Glion east of Dr. Rondd's garage & poss. cult. Old fr none longer than 3.5 cm, upper edge thin but hardly winged. (See 4-28-31.) [See 5-15-34 and 8-3-34 when this tree was definitely proved to be L. anagyroides Medic.]

5-30-31 Robinia Pseudo Acacia L. G514, BMGCP 412 Coste I 376, Bon 84. Fl. Glion.

5-30-31 Laburnum anagyroides Medic. BMGCP 419, = L. vulgare Griseb = Cytisus Laburnum L. Coste I 303, Bon 71. Fl. Glion Cult. Stipules early deciduous, narrowly linear, 7 mm long, hairy (Coste & B.M.G.C.P say no stipules)

5-30-31 Geum urbanum L. Coste II 12, Bon 96, BvH 137 G 485, Fl & young fr. Glion. Upper st-lvs often only 1 lft. Receptacle & young fr. hairy.

5-30-31 Cornus sanguinea L. Coste II 228, Bon 136, BvH 213, BM of C.P. 568. Fl. Glion. Young sts, sts of infl & Calyx & upper part of lvs with short closely appressed hairs (on upper side of lvs hairs often attached in middle as noted for C. stolonifera Midx in N fld) but hairs on underside of lvs more nearly spreading. Petals with appressed hairs on outside (Coste) visible (20X)

5-30-31 Scolopendrium officinale Smith Coste III 696 = S. —— Sw. Bon 380 = S. vulgare Symons BvH. 589 = S. vulgare Sm. G 40 = Phyllitis Scolopendrium Newm. BM of C.P 68. Young sp. Glion

5-30-31 Briza media L. Coste III 622, Bon 366, BvH 556, G 154, BM of C P 120 Early fl. Glion. Ident. by ligules truncate & not more than 1.5mm and by glumes shorter than lemmas

5-30-31 Orchis militaris L. Coste III 398, Bon 310 B&H 459 Fl. R'd Les Avants-Glion. 1 spec. only. This is form desc. by Coste & prob same as O. galeata DC. Bon 310. Sepals & petals ashy-purple outside with darker purple stripes inside. Lip purple on lobes and with purple dots on the lighter base & on the narrow part of middle lobe. Glands 2, pouch 1. Pollen greenish.

5-30-31 Ophrys muscifera Huds. Coste III 389, Bon 313, B&H 464. Fl. R'd Les Avants-Glion. Mark on lip grayish rather either blue or white.

5-30-31 Cephalanthera ensifolia Rich. Coste III 412, Bon 308 = C. longifolia Fritsch. B&H 455. Fl. R'd Les Avants -Glion. Cfd with C. pallens of 5-23-31. Bracts 3 mm long. ~~but not~~ Lvs as ill Coste, & B&H. not as narrow as sug. by ill Bon.

5-30-31 Habenaria bifolia Br. (See 5-12-31) Fl.
a. Les Avants along R'd bet village & highway bridge over Chaudeeon. 36 cm high. Lvs 7.5x2.5 cm. Fl 10-15 mm from tip of lip to tip of upper sepal. Lip greenish 9 mm x 2.5 mm. Spur 15-20 mm. Sweet scented

b. On same id farther towards Glion. 45 cm high. Lvs 12 (perhaps more) X 5.5 cm. Fls 30 mm tip to tip. Lip, greenish 10-13 mm x 2.5 mm. Spur to 30 mm. Less sweet scented than (a)
In all other respects (a) & (b) seem the same.
Anther narrow, cells parallel. Entrance to stigmatic cavity like a hole in a wall.

5-30-31 Potentilla
Fr. Glion This is ?. P. verna L. of 4-25-31 but fr now ripe is somewhat wrinkled. Fr about 2 mm longest dimension & hilum about 1 mm (looking proportionately large) Pedicels very slender [much more slender than P. salisburgensis Haenke (5-29-31)] & in some cases slightly curved (Note plant hanging down face of wall) So consider poss of P. opaca Roth Coste II 25, = P. — L. Bon 99.
[4-10-34 Branches of rootstock rooting, tho the flowering sts do not. See SvK I 371 P. verna.

5-30-31 Phegopteris Robertiana A. Br. G 35, = P. calcarea Fée Bon 378 = Polypodium Robertianum Hoffm. Coste III 684, B&H 580. Young sp. Highway Les Avants – Glion

5-30-31 Silene Cucubalus Wibel, B&H 65 = S. latifolia Britten & Rendle G 386 = S. inflata Sm. Coste I 172, Bon ~~54~~. Fl. Glion
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6-3-31 Moehringia muscosa L. Coste I 205, ~~Bon~~ = Arenaria —— N. Bon 49 Fl. Glion (See 8-12-31

6-3-31 Lithospermum purpureo caeruleum L. (See 5-18-31) Fl. Glion at spring on upper path bet. Planaoud & Tovaux.

6-3-31 Habenaria
= Orchis montana Schmidt Coste III 401, Bon 310 prob = H. chlorolenca Ridl B&H 462. Fl. Glion in woods just below Planassud. (Cfd with H. bifolia of 5-30-31) 45 cm high. Lvs 10×4.5 cm Flw 18-20 mm tip to tip. Lip greenish 13×2.5 mm. Spur 20-23 mm. No scent observable. Anther broader than H. bifolia & cell spreading apart at base. Entrance to stigmatic cavity open & basin-like. Spurs prob. slightly thickened toward end. General effect so like H. bifolia that in field easily mistaken. Fls greenish white (not "pure white B&H) (See 6-18-31

6-3-31 Arabis Turrita L. (See 4-22-31) Immature fr. In wall east of Hotel Victoria & seen elsewhere. Pods, glabrous 11 cm × 2.7 mm. as desc. vill. Seeds as yet do not show def. wing. No dorsal nerve. St 30 in. tall [9-1-34 Immature fr.

Les Avant → Montreux path. Seeds have definite wing tho not as broad relatively as in ill (Coste)]

6-4-31 Lathyrus pratensis L. Coste I 399, Bon 88, B&H 130 Fl. Glion below "Halte Val-Mont." St & lvs gray-green, almost glabrous except on youngest parts. Tendril sometimes simple but always long.

6-4-31 Geranium sanguineum L. Coste I 247, Bon 58, B&H 94, BMJ C.P. #34. Fl. Glion

6-4-31 Veronica Teucrium L. Coste III 34, Bon 234, H 727, BMJC.P 671 Fl. Glion Field by R.R [9-3-34 Clv. Fr. Sorelaux Several stems col. of which one had lvs in whorls of 3's]

6-4-31 Genista sagittalis L. (see 5-12-31) Fl. Glion P.R.

6-4-31 Alchemilla vulgaris L. Coste II 64, Bon 102, B&H 145 BMJC.P 348. See also H 493. Fl. Glion. Note: Stipules, of all but uppermost lvs, tubular inflated, sheathing, foliaceous.

6-5-31 Paradisia Liliastrum Bert. Coste III 349, Bon 300 B.MJC.P. 175 Fl. Col by Miss McKen Rochers de Naye — Caux. Lvs to 6 mm wide.

6-5-31 Orchis maculata L. (See 5-23 & 29-31) Fl., Colby not wet cl.
Miss MacK. Cfd with spec. collected recently.
Lvs spotted but obscurely. Fls. larger, white, the 2 petals faintly tinged purplish with more def. line of purple on edge. Pollen-cells purplish & stigmatic spot outlined with purple: both close of O. maculata as compared. No spots on lip.

6-5-31 ?? Rosa alpina L. Coste II 52, Bm 101 Fl. Colby
Miss MacK. - Twig of 4 in col. with 4 lvs & 1 fl. Thorns none. Twig glabrous & glaucous. Lfts 7 except upper lf which has 3. Stipules 5 mm wide, attached to petiole for half its length & with sharp points projecting about 8 mm higher, glabrous, glaucous, slightly dentate & with many dark red glands on edge. Petioles & mid ribs glandular & with a few straight prickles (evident to touch) Lfts glabrous both sides, glaucous beneath, sharply toothed to near base (the teeth being again dentate) & each tooth ending in gland smaller than those on stipules. Calyx lobes to 2.5 cm, not lobed on edges, but tip slightly expanded (not as wide as base) & slightly toothed, glandular on edges, very hairy inside. Petals red. Styles free. Stigmas in velvety head. Peduncle 3 cm, glabrous below but thickly covered above middle with stout

glandular hairs. Calyx tube glabrous. Calyx lobes project somewhat beyond corolla.

6-5-31 Antennaria dioica Gaertn. Coste II 322, B&H 241, G 820, = Gnaphalium dioicum L Bon 173 Fl. Col without basal lvs, root by Miss MacK . ♀ fls. bracts def. rose-color. St. lvs. slightly cottony above but more so below (Bon says not)

6-5-31 Campanula rhomboidalis L. Coste II 500, Bon 199, B.M.&C.P. 742. Fl. Col without basal lvs or root by Miss MacK

6-5-31 Phyteuma orbiculare L. Coste II 489, Bon 196, B&H 284. Fl Col without root by Miss MacK.
St to 30 cm., glabrous, angled-ridged. Lvs pubescent both sides. Bracts broad at base (to 6 mm) narrowed to more or less elongate acuminate tips. Filaments pubescent on inside at base.

6-5-31 Convolvulus arvensis L. Coste II 571. Bon 217, B&H 317, G 671 Fl. Glion. Corolla white with 5 bands of rose outside (part exposed in bud) Bud slightly pubescent at tip. Filaments papillose on edges at base anthers bluish

6-6-31 Vicia silvatica L. Coste I 387, Bon 86, B&H 127 Fl Glion fields near Café des Narcisses. Fl to 17mm. Keel whitish, dark purple at tip inside; wings & standard whitish outside and handsomely veined purple inside. Stipules with upper lobe entire; lower lobe much cut.

6-6-31 Thymus Chamaedrys Fries. Coste III 87. Bon 248 (see B&H 361) Fl. Glion R'd towards Les Avants. St very def. put. on opp sides, 13cm high. But as lvs are to 10×8mm & lowest verticel of fls a little separated from the rest this may be T. montanus Waldst & Kit (Coste) which Bon does not quote & which B&H evidently consider = T. Chamaedrys Fries. Note: the broad upper lip of corolla is shorter than lower lip & only slightly longer than calyx. Stamens abortive.

6-6-31 Pimpinella magna L. Coste II 206, Bon 132 = P. major Huds. B&H 13. Fl. Glion. R'd towards Les Avants. Flo. def. pink [6-8-34 Fls found repeatedly white to bright pink & shades between, often growing together]

6-8-31 Helianthemum Chamaecistus Mill. BM of CP. 507, B&H 54, = H. vulgare Gaertn. Coste I 150, Bon 35 Fl Glion. Lvs green both sides & like st. pubescent with rather long, loose hairs, frequently

2 or more [illegible] springing from same points but hairs too [illegible] to give starry [illegible] (pect.) Lvs. flat, 20x7 mm. The 3 large sepals [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] otherwise [illegible]. Pretty well covered with hairs [illegible] on lvs except on inner (scarious) edge where they are smaller & starry or lacking.

6-8-31 Helianthemum

1-8 Cult Val-Mont to compare with above. Fls [illegible], petals yellow at base. Habit much as above. Lvs 15X2 mm, edges strongly revolute [illegible]; [illegible] sepals grayish with short [illegible], [illegible] next [illegible], which is [illegible] sepals. This [illegible] suggests H. polifolium DC. Cost I 130 Bon 35, ~~B&H~~ = H. — Mill B&H 55. or perhaps a cross with above.

6-8-31 Centaurea Scabiosa L. Coste II 390, Bon 180 B&H 365, G 860 Fl. Glion Involucre 1.5 cm broad (Bon says 2 cm.+) Whole plant grayish green & more or less wooly pubescent. St ridged. Sterile fls with tubes 3 cm long.

6-8-31 Stachys recta L. Coste III 117, Bon 253 Fl. Glion

6-8-31 Aegopodium Podagraria L. Coste II 209, Bon 133 B&H 189, G 614, BM of CP 563 Fl. Glion (Fr not old enough to determine if only central umbels ripen Coste, Bon)
[6-1-34 Fl & young fr. Glion. Stylopodium white, each half as long as broad and (as fr. advances) deeply divided. Style (in fl) erect & contiguous.] [6-26-34 Fr. Glion Lateral umbels with only occasional fr. Central umbel full-fruited.]
6-8-31 Lathyrus niger Bernh Coste I 400, Bon 89, B&H 132, B.M of C.P 394 Fl. Glion.

6-8-31 Geranium pratense L. Coste I 248, Bon 58, B&H 94, G 535, B.M of C.P 434 Fl. Glion. One spec only noted ... Glion-Val-Mont south side at edge of woods. Cfd with G. silvaticum (See 5-29-31). Fl cm wide larger than any other G. yet seen & not white at center. Claw of petal ciliate & with a dense tuft of white hair on each side at edge but pointing upward, quite dif from G. silvaticum whose claw has separate spreading hairs on edge & on face. Filaments broadly triangular at base (2 mm wide), the gland which alternates with petals densely pubescent in tops. (See 6-26-31

6-8-31 Centaurea ~~amara~~ Jacea L. (see end) ~~L. Coste II 390, Bon 180~~

slightly larger for 1 in below head
Fl. Glion. St. simple, 18 in slender, stiff, ridged and like lvs gray-green with webby pubescence. Root & basal lvs (if any) not collected. St. lvs lanceolate, sessile about 5×1 cm, uppermost entire, lower ones with 1-3 teeth below middle. Invol about 12×12 mm narrowed at top. The uppermost lvs not reaching to its top. Appendices scarious, a rich brown (darker at base & lighter towards edges), very concave, shortly lacerate. Corollas a pale rosy-lilac, the radiant ones 3.5 mm long, the disk ones darkened at tips to match stamens & ~~styles~~ stigmas. But since this name not in S&K perhaps plant is C. Jacea L. Coste II 390 Bon 180, B&H 265, G 860 (See 6-26-31) [5-25-34 Acc to S&K I this can only be C. Jacea L.

6-8-31 Potentilla reptans L. Coste II 21, Bon 98, B&H 142, G 484 Fl. Glion

6-8-31 Vincetoxicum officinale Moench Coste II 548, Bon 212. = Cynanchum Vincetoxicum Pers. G 667. Fl. Glion.

6-8-31 Polygonum Bistorta L. Coste III 205 Bon 273, B&H 399 Fl. Common west of Glion and above Glion.

6-8-31 Medicago sativa L. Coste I 322, Bon 74, B&H 111, G 510, BM7 CP 404 Fl. Glion

6-9-31 Lysimachia nemorum L. Coste II 536, Bon 209, BVH 302 Fl & young fr. Glion. [6-8-34 Lvs dark punctate but not "dicht durchscheinend punktiert" SvK if that means transparent punctate as in many Hypericum]

6-9-31 Scrophularia nodosa L. BVH 342 = Scrofularia —— L. Coste III 7, Bon 231 Fl. Glion. But stem hollow (Coste says "pleine") Root not col. but very acute lvs & calyx lobes without perceptible scarious border make identif. sure. (See 6-19-31 root thick & tuberous

6-9-31 Veronica Beccabunga L. Coste III 32, Bon 235, BVH 347, G 927 Fl & young fr. Glion. Style 2+ mm. Pedicels (a.t.) about equal to bracts. Ovules many.

6-10-31 Aruncus sylvester Kostel. (See 5-12-31) Fl. Glion. Fls. seem perfect. Stems of infl. white & pubescent.

6-10-31 Onobrychis sativa Lamk. (See 5-10-31) Fr almost ripe. Glion.

6-10-31 Sambucus nigra L. Coste II 230, Bon 137 BVH 215, B.M.F.C.P. 717. Fl. Glion. Note tendency to produce

a tiny extra lft. or stipule at base of petiole of some of lfts.

6-10-31 Orchis pyramidalis L. Coste III 403. Bon 111 BvH 461 = Anacamptis — Rich. Fl. Glion

6-10-31 Stachys silvatica L. Coste III 119, Bon 253, BvH 368. Fl. Glion. Pubescence on whole plant mostly glandular

6-10-31 Reseda lutea L. Coste I 160, Bon 38. BvH 53 Fl. Glion

6-10-31 Cephalanthera rubra Rich. Coste III 41, Bon 308 BvH 455. Fl. Glion Upper path in woods.

6-11-31 Lilium Martagon Coste III 308, Bon 295, BM of C.P. 157. Fl. Glion.

6-11-31 Cypripedium Calceolus L. Coste III 414, Bon 308, BvH 465. Col. some days ago on Rigi and sent to head waitress

Bon 300

6-11-31 ?? Campanula persicifolia L. Coste II 499. Fl. observed and coll by Miss Mack. Very large blue fls on tall st. Not studied but this seems best probability. Date not exact. [Col 6-8-33]

6-12-31 Thalictrum aquilegifolium L. Coste I 37, Bon 4 Fl. Shortly east of Col de Jaman. Stamens a beautiful violet color. One spec only found (See 6-30-31

6-12-31 Ranunculus alpestris L. Coste I 24, Bon 7 Summit of Dent de Jaman over the edge on west side (only place found) Fl.

6-12-31 Saxifraga Aizoon Jacq. Coste II 137, ~~Bon~~ & 446 = S. —— L. Bon 114. Fl. Dent de Jaman. Basal lvs in stiff crustaceous rosettes, none longer than 17 mm. Found also lower down.

6-12-31 Saxifraga muscoidea Wulf Coste II 142 Bon 116. Fl. Dent de Jaman & again lower down. Lvs & lower part of st sparingly gland-pub. Upper part of st & calyx tube (sometimes also lobes) def. gland-pub. Many tufts (with dead lvs below) branching from root. St lvs & upper lvs on sterile tufts simple as ill Coste. Note petals have edges turned inward at base. (Ill Coste good)

6-12-31 Gentiana lutea L. (See 5-29-31) Fl. Gressalley

many in bud but only 1 spec in fl.

6-12-31 Aconitum lycoctonum L. Coste I 52, Bon 11, BMJCP 385 Fl west side of Col de Jaman. St almost glabrous below, covered above with short, downward pointing yellowish hairs. Sepals similarly pub. outside, inside shining glabrous with longish white hairs on lower ones. Petals with spur completely coiled so that tip is parallel to claw pointing in opposite direction. Filaments abruptly widened at base (almost as wide as anthers.)

6-12-31 Adenostyles albifrons Rchb. Coste II 285, Bon 160 Bud West side of Col de Jaman. Fls 3 in each head. [See 6-30-31] [See 7-5-34 if. cfd with Petasites albus Gaertn.]

6-12-31 Campanula glomerata L. Coste II 498, Bon 198, BrH 285, B967. BMJCP 743. ~~Cat~~ Fl. Gresalley - Caux Corolla 1.5 cm long, lobes sometimes only 4. Stigmas sometimes 4. St. ridged from bases of the semi-clasping lvs.

6-12-31 Veratrum album L. Coste III 396, Bon 291 Bud. Caux.

6-12-31 Lathyrus luteus Peterm. (See 5-29-31) Fl West of Col de Jaman. Fls 2 cm overall, cream colored on opening turning orange on withering.

6-12-31 Cotoneaster integerrima Medic. BMJCP 373 = C. integerrimus Medik BUH 153 = C. vulgaris Lindl. Coste II 67. Bon 102. Fl & very young fr. Dent de Jaman & below. Petals greenish about the size & only slightly lighter than calyx lobes. Ovules 2 in each carpel. (See 8-29-31

6-12-31
Either Erigeron or Aster Fl. Dent de Jaman. 5 in high, erect, stiff, pubescent, slightly angled from bases of lvs. to top. Lvs gray-green, pubescent esp. on edges & beneath, lowest abruptly spatulate 2 cm. long, the next oblanceolate to 4 cm long 3 nerved, the upper ones narrow sessile. Head solitary 2.5 cm diam, rays bluish-lilac, disk yellow. Invol about 9 mm high bracts loose in about 3 rows. Bracts hairy on edge & pub. towards apex but more nearly glabrous at base, tips acute. Receptacle flat rather deeply alveolate but margins not dentate. Rays 12 x 2.9 mm, pinched to an acute apex.

Rays ♀, in 2-3 series (overlapping). Achenes silky pubescent with a denticulate dingy (a.+S.) pappus, hairs not all same length. Note that many of rays are divided to base of blade so as to make a filiform appendage on one side. Lvs. entire with very short recurved point at apex.
See Aster alpinus L. Coste II 293, Bon 161, BNH C.P. 775 and also Erigeron alpinus L. Coste II 291, Bon 161, BvH 237

6-12-31 Globularia cordifolia L. (See 5-29-31) Fl Dent de Jaman. Upper lip of corolla of 2 almost filiform lobes a little shorter than upper lip.

6-12-31 Pedicularis verticillata L. Coste III 54, Bon 340 Fl. Jaman.

6-12-31 Pulmonaria
Fl & young fr. West side of Col de Jaman. Corresponds best to P. ovalis Bast (= P. mollis Guep non Wolf) Coste II 596. This not listed in S & K. Next best guess is P. vulgaris Mérat Coste II 596, S. & K 279.
Neither of these given in Bon or BvH. St 11 in high. Largest basal lfs now 5½ in overall, its

6-12-31
its blade 7.5 x 3.5 cm. (But as these lvs seem to be developing from an independent lateral but they may grow larger later). St. lvs 6-8 clasping. Lvs all clear green with no white markings. Largest calyx (x.t.5) 17 mm long with teeth 6 mm, inflated but impossible to decide if "ventru a la base". Carpels shining to eye but finely pubescent (20x)

6-12-31 Sedum alpestre Vill Coste II 116, Bon 111. Fl Dent de Jaman (or poss. below) St 2 in high, lower part & lower lvs reddish. Calyx lobes somewhat fringed reddish. Petals greenish with reddish stripe down center outside. Neither sepals nor petals strictly "obtuse" (Coste). No "rejets steriles" on spec. but no other species in Coste seems possible. Pedicels sometimes 2 mm long
[7-26-34 Prob was S atratum L.]

6-12-31 Silene acaulis L. Coste I II 175, Bon 44, B&H 64
& 386. Jaman & lower. Lvs with minute denticulation or ciliation whole length & sepals ciliate on edges. Calyx red. [7-5-34 Fl. Rochers de Naye. Sts 3 – 35 mm high]

6-12-31 Bartsia alpina L. Coste III 49, Bon 238

B&H 350 Fl & unripe fr. Jaman. Upper part of st., upper lvs & calyx purplish. Calyx & bracts with pubescence more or less glandular. [7-5-34 Fl & fr. R. de N. Seeds with annual beautifully fluted wing-like ridges.]

6-12-31 Polystichum Lonchitis Roth. H 40 = Aspidium —— Sw. Coste III 685, Bon 378, B&H 581 Road above Lac de Jaman. Sp.

6-12-31 Cystopteris alpina Desv. Coste III 689, B&H 590 = C. —— Link Bon 379. Sp. Road above Lac de Jaman. Indusia evident as young fronds unroll. Cfd. with C. fragilis. Berula found in neighborhood.

6-12-31 Rhododendron ferrugineum L. Coste II 508, Bon 203. Fl. Jaman. Lvs to 4 x 1 cm. Calyx almost none.

6-12-31 ?Gagea Liottardi Roem & Sch. Coste III 313, Bon 296 Fl. Only 1 spec. found in road above Lac de Jaman. Bulb one with a small new bulb at side in same tunic. Basal lf 1, (6 in long) thick, grooved above & round-keeled beneath so as to be nearly triangular 3 mm on a side.

6-12-31 hollow
sides linear (same width throughout) but narrowing to acute apex. St. naked, 1 3/4 in high. Of involucral bracts: the larger is 35×9 mm the upper 1/3 involute & acuminate; the smaller 20×4 mm. Fls 3, seemingly in umbel, with 2 narrow linear white margined bracts (less than 10 mm) issuing from same point as pedicels. Pedicels 15-80 mm long with a few scattered hairs. Perianth glabrous, 15 mm long.

6-12-31 Rumex alpinus L. Coste III 201, Bon. 272 Fl. Jaman. Ident. largely by the broad. obtuse, deeply cordate lvs.

6-12-31 ? Linum alpinum L. Coste I 231, Bon. 54.
(~~Surely~~ is this L. perenne L. BMJC.P 440, B&H 87?)
Fl. Either on Dent de Jaman or on rd to Col de Jaman. Many erect sts from woody base. St. slender, lfy, to 9 in high. Sepals all with thin white edges, glabrous & not ciliate. The 2 outer sepals maybe somewhat narrower & more pointed than inner ones but none are strictly obtuse. Fls light blue, 15 mm diam. Claw yellowish & slightly pubescent inside. Styles ~~abruptly~~ flattened at top into a small

erect disk-like stigma with stigmatic surface inward (effect is much like the opened anthers of some plants). Petals 1cm long. Note: this agrees exactly with nothing in Coste. Groups of flrs on upper shoots much like ill Coste of L. alpinum. Anthers pale yellow 2×1 mm. Perhaps this is L. angustifolium Huds Coste I 231 = L. tenue Mill BVH 87 not quoted by either name in Bon.

6-12-31 Orchis globosa L. Coste III 400, Bon 310 Fl. Gresalley. Bracts not quite as long as ovary. Sepals distant convergent. Petals broad at base and almost as long & sharp as sepals. Middle lobe of lip pinched to form the sharp tip. Glands 2, pouch 1. Found in bud earlier in day.

6-12-31 Orchis latifolia L. Coste III 404, Bon 311. BVH 460 Fl. Gresalley. Dozen of specimens. L's ranging from very def. & brightly spotted to not at all spotted. Fls all dark purple of varying degrees of brightness. Lip def 3-lobed or hardly more than dentate. Spurs vary in thickness. Note BVH differs from Coste in desc. Cf. with O. maculata with which none of these specimens would be confused.

6-12-31 Calamintha alpina Lamk Coste III 95 Bon 249 Fl. Dent de Jaman. St. pubescent with downward curved hairs. Lvs to 12x11 mm, dentate to below middle. Fls to 15 mm long. Corolla deep purple.
= Satureia — Scheele BM of CP651

6-12-31 Athamanta cretensis L. Coste II 189, Bon 129 Fl. Dent de Jaman. Grayish with finely cut lvs. Fr densely pubescent.

6-12-31† Senecio Doronicum L. Coste II 308, Bon 164 Fl partly open. Dent de Jaman. St & lvs (esp. beneath) white webby, also involucre. Bracts of involucel like those of involucre and so long as to be confusing. Fl. heads 2. (See 6-30-31)

6-12-31 Biscutella laevigata L. Coste I 125, Bon 31 Fl & unripe fr Dent de Jaman. Horizontal underground st sends up short branches (near together or spaced) which bear rosettes of erect lvs & fl-stem. Lvs hirsute, slightly dentate to almost entire (More like ill of B. apula L. Coste)

6-12-31 Habenaria viridis Br. B&H 462 = Orchis

viridis Crantz Coste III 396 = O. — all. Bon 311 Fl. Jaman. Petals narrow linear, green, edged brown. Lips green-brown. Sepals green (see 7-22-31) [4-30-34 Note clasping lvs. all the way up the stem]

6-12-31 Veronica aphylla L. Coste III 33. Bon 235 Fl. & young fr. Jaman. Slender st. creeping & rooting. Lvs pubescent [hairs (20x) show sections] peduncle, calyx, bracts & ovary gland-pub. Style 3-4 mm. long. (See 7-22-31

6-12-31 t. Cerastium arvense L. Coste I 220, Bon 52. B&H 74, G 380 Fl. Dent de Jaman. Very like ill Cost. & B&H. Pubescence on upper part of plant stem glandular. See SUK I 240. (See 7-5-31

6-12-31 Thymus Serpyllum L. (See 5-12-31) Bud Dent de Jaman (Cfd with T. Chamaedrys Fries from Glion) St. purplish. Lvs with veined nerves not "saillantes."

6-12-31 ?Leontodon
Fl. Jaman. Ident. by pappus plumey. Note: achene attached to receptacle by short thread inserted in depression in base of achene

6-12-31
achene and in very def circular well in receptacle. These threads remain protruding from receptacle when achenes detached.

6-12-31 Gentiana Clusii Perr & S. Coste II 563 first inc in G. acaulis L. Bon 215 Fl. Jaman & lower on rd to Lac de Jaman. Basal lvs. not at all petioled, ending in sharp mucron. Calyx 18 mm high of which teeth form 7 mm. Teeth upright, applied to corolla. Corolla lobes acute-mucronate. Corolla tube with lines of thickened dots (see G. Kochiana Perr & S 5-7-31) but with no blotches of bronze-green at throat.

6-12-31 Dianthus silvestris Wulf. Coste I 192, Bon 47. Bud. Dent de Jaman. Ident by similarity to D. Caryophyllus L with only 2 bracts. Lvs 1.2 mm wide. (See 6-20-31 where on same plant 3 fls had 2 bracts & 3 had 4 bracts.

6-12-31
Liliaceae. Fl. Jaman-Caux. Roots of thick white fibres, descending (much like ill Coste III 344

of Anthericum ramosum L. Lvs all basal, glabrous, more or less folded down middle, 4 mm wide, 10 cm long (but perhaps bitten off at tips. Lvs 8, not distichous, with a few slender scales at base outside. Scape 12 cm high, glabrous, very stiff at base (1.5 mm diam), tapering to a perceptably narrower top. Fls 5 (the uppermost rudimentary) in raceme, the pedicels 1 mm or a little more, each subtended by bract longer than perianth. Lowest bract 15 mm, thin (a.t.s. withered) bracts yellowish with dark veins distinct but irregularly spaced, about 7-6 in number. Perianth 1 cm high of 6 segments distinct to base, thin, (a.t.s) yellowish, each with 3 nerves of darker yellow. Stamens 6, reaching ½ as long as perianth. Filaments slender, glabrous somewhat shorter than the yellow anthers which are attached on back about ⅓ of length above the sagittate base. Style simple, overtopping anthers, enlarged toward top into club-shaped (and perhaps 3-lobed) stigma. Ovary superior 3-angled. Stamens inserted at base of perianth, not on lobes. Pedicels show no signs of articulation. Infl less than 2 cm high. Only poss in Coste seems to be Anthericum Coste III 344 = Phalangium Bon 301. See A. ramosum var. simplex SVK 62. (See 6-27-31

6-12-31 Lychnis dioica L. (See 5-29-31) Fl ♂ & ♀ with unripe fr. Very common Jaman. Fl ♂ white found further down.

6-12-31 Alchemilla alpina L. Bon 102, B&H 145 See Coste II 63 for several segregates. Fl Jaman. Since of the 7 (sometimes 8) folioles the 2 on each side of base are more or less joined this may be ?A. Hoppeana Busez (But ~~the~~ infl. is more like ill of A. alpina L. Coste II 63) = A. Dalla Torre SVK I 375 = A. Conjuncta Bab B&H 145

6-12-31 ?Alchemilla pubescens Lamk. Coste II 64 Fl. Dent de Jaman. Inc in A. vulgaris L. Bon. Lvs 5.5 cm across, pub. both sides with straight, stiff, semi-appressed hairs.

6-12-31 ?Plantago ~~montana~~ alpina L. Coste III 147, Bon 260 Withered flo & unripe ~~fl~~ fr. Jaman. Lvs. linear 3-4 mm wide, with few short hairs both sides & on edges, almost or quite entire, 3-nerved with lateral nerves near the edges. But lvs. slightly fleshy with tufts of long white hairs in axils and no bracts more than twice as long as wide. This suggests

P. maritima L. Coste III 146, Bon. 360, BVH 380 Scapes slender erect, to 12 cm, appressed-pubescent and sometimes purplish as are edges of bracts & sepals. A very long tap root branches about 1 inch or more underground into several branches. [7-4-34 Fl & fr R. le W. Seen on every trip to vicinity since 6-12-31 and acc. to S & K surely there because of the flat lvs & other char.]

6-12-31 Eriophorum angustifolium Roth. Coste III 467, Bon. 325, BVH 504. & 197 Fl. Gresalley.

6-12-31 Polystichum aculeatum Schott (= P. setiferum Rosendahl) B.U. of C.P. 70 = Aspidium aculeatum Sw. BVH 582 = A. —— Doell Bon. 378 all of which (at least in broad sense) evidently include A. lobatum Sw. Coste III 685. Last yrs. lf with old sp. Prob in woods cut-off west of Col de Jaman. Frond 23 x 4 in.

6-12-31 Sorbus Aucuparia L. Coste II 72, Bon. 103, BM of CP. 380 = Pyrus —— Gaertn. BVH 152. Fl. Col de Jaman.

[6-12-31 Pinguicula vulgaris L. Fl. Col but not studied. But col & studied in 1933.]

6-12-31 Helianthemum
Same as 5-29-31 Fl. frequent Dent de Jaman. Style very def. deflexed & then bent upright at base.

6-13-31 Dryas octopetala L. Coste II 10, ~~Coste~~ Bon 96, BVH 137 Fl. Rochers de Naye.

6-14-31 Geranium phaeum L. (See 5-24-31) Fl Road east of Caux toward Sonchaux.

6-14-31 Veronica officinalis L. Coste III 33, Bon 235 BVH 347. G 727 Road east of Caux

6-14-31 Veronica Teucrium L. (See 6-4-31) Fl. Road east of Caux.

6-14-31 ? Hesperis matronalis L. Coste I 82, Bon 22, BVH 34. G 430, B.M. of C.P. 308. Fl. Either on road east of Caux or bet. Glion station & Val-Mont. Lvs on lower half of st. missing. St. hispid with long stiff white hairs which on upper part are largely replaced by shorter pilose hairs (See B.M. of C.P.).

Lvs. pub with straight & forked hairs. Fls few Petals white, sepals whitish, pub. with simple & forked hairs. Ident as sure as poss without fr.

6-14-31 Satureja vulgaris Fritsch G 706 = Clinopodium vulgare L. ~~Bx# 363~~ = Calamintha Clinopodium Benth. Bon 249, Moris Coste III 94 = Calamintha vulgare Druce Bx# 363. Fl. Glion. Largest lvs 3x2 cm.

6-14-31 Ligustrum vulgare L. Coste II 541, Bon 211 Bx# 309, G 652. BM of C.P. 594 Fl. Glion. Note: Stamens tho' described as "included" are shorter than limb of corolla but project above tube.

6-14-31 Lathyrus latifolius L. (See 4-30-31) Fl. Glion

6-14-31 Anthemis tinctoria L. B.M. of C.P. 761, G 846, Bx# 248 = Cota — Gay Coste II 346, Bon 168. Fl. Cult. Glion

6-14-31 Tragopogon pratensis L. (See 5-15-31) Fl. Glion Aigrette flat horizontally & looking like miniature spider-web.

6-14-31 Digitalis ambigua Murr. B.M.J. C.P. 673 = D. — L. Coste II 26 = D. grandiflora All. Bon. 239 Fl. Shortly below signs Caux-Sonchaux. St. shaggy with long white hairs below, softly gland-pub. above.

6-14-31 Stellaria nemorum L. Coste I 212, Bon. 57, B&H 76. Fl & unripe fr. Path Librson - Veytaux on upper part. St (as collected) 12-16 in. Def. pubescent from base, the hairs gland tipped in infl. No stolons on plants collected (without roots). Lvs ciliate & either glabrous above or more or less sparsely pubescent both sides. Sepals 6 mm long; petals 11 mm long. Styles always 3.

6-14-31 Cynoglossum officinale L. Coste II 605, Bon. 225, B&H 327, A 681. Fl & unripe fr. Caux-Sonchaux.

6-14-31 Rosa arvensis Huds. Coste II 51, B&H 150, B.M. J.C.P. 344. Does this = R. repens Scop. Bon. 101. Fl. Glion. Trailing. Fls white, solitary, 2.5 cm diam., scentless. Lfts: terminal 2 cm, decreasing to basal 1 cm. Identified by protruding column of united styles glabrous & as long as stamens.

Sepals entire or with 1 or 2 narrow appendages as in ill. Coste. Ovary long & narrow. No "bractées primaires" to be dressées"

6-14-31 Luzula nivea DC. Coste III 456 Bon. 322 Fl. Glion woods on path toward Caux-Sonchaux. Glomerules few-fld.

6-17-31 Lychnis Flos-cuculi L. Coste I 184, Bon. 45 B&H 67, G 384, BMqCP 267 Fl. Glion. St ~~angled~~ ridged cap. above. Not viscous, but downward pointing hairs somewhat crisped. Scales at throat of petals cut into 2 linear lobes of which inside one is long & very narrow. (See 7-11-31

6-17-31 Sedum sexangulare L. Coste II 116, B&H 168, B.M-qCP. 320 = S. boloniense Lois Bon. 111. Fl. Glion.

6-17-31 ? Euphorbia verrucosa Jacq. Coste III 236, ~~Bon~~ = E. — L. Bon 280 Fr. Glion. This is E. watched all spring. Infl. yellowish. Seed 2.5 x 2 mm. Lvs & bracts only finely denticulate towards apex.

6-18-31 Habenaria
= Orchis montana Schmidt (see 6-3-31) Fl
On path toward Chambabaud just beyond 1st wattering trough. No question of ident as anthers & stigma exactly like ill Coste. with a green thickness between the 2 pollen cells. Lowest fl 2 cm tip to tip; lip 14 x 3 mm, spur 4 cm long.

6-18-31 Astragalus glycyphyllos L. Coste I 367, Bon 82, B&H 123 Fl. woods above Valmont & Chambaud.
~~Ident as sure as pos. without fr.~~ St. & lfts above glabrous Petioles, lfts beneath with short stiff white appressed hairs. Lfts 13, oval, entire, barely apiculate 3-4 x 2-2.5 cm. Lower stipules united, upper separate. Fls 1 cm long on pedicels of 1 mm or less, subtended by fragile subulate bracts of 3-4 mm. Young fr. on another spec. shows pod completely divided by indented lower suture.

6-18-31 Stachys alpina L. Coste #119, Bon 253
Fl. Glion near bridge east of Val-Mont farm. Cfd with S. silvatica L. Fls open yellowish with reddish markings & turn a rather dingy rose-red, Lvs. similar to S. silvatica but oblong (instead of oval) & ~~blunter at apex~~ St. softly gland- [illegible] more [illegible]

ular pubescent (not hirsute). Calyx much larger, 12 mm (instead of 7)

6-19-31 Valeriana excelsa Poir. Coste II 262 = V. sambucifolia Mikan B&H 226 & evidently inc. in V. officinalis L. Bon. 144. Fl. Glion, rd west of ValMont. Plant 3 ft 18 in high. Stolons (which pulled up readily with plant & hence perhaps "épigées", tho light colored because under fallen lvs of nearby trees) bearing 1-2 lvs with 2-5 roundish ~~lfts~~ segments. St lvs with 7 to (poss) 13 segments. Lateral segs on all except upper lvs. about 2 cm wide. All segs deeply toothed.

6-19-31 Ononis repens L. Coste I 312, Bon. 72, B&H 110 Fl. Rd at Dr. Renold's gate. Sts 30 in long, prostrate but not rooting. No spines.

6-19-31 Prunella vulgaris L. & 698, B&H 365 (~~670~~) = Brunella — L Coste III 131, Bon. 255, ~~B&H 365~~ Fl. Glion.

6-19-31 Scrophularia nodosa L. (See 6-9-31) Fl. Glion Root thick & tuberous.

6-19-31 ? Dianthus Carthusianorum L. Coste I 191, Bon 47 = D. c — L. BM & CP. 263 Fl. Montana via Dr. Trutmann. Fl-sts only. Sts 3-7 in high, rather obscurely 4-sided. Lvs 2-4 pair, the upper pair sometimes very close under fl-head. Lvs linear, acute shorter (usually much shorter) than internodes, rather glaucous, the longest pair 3 cm x 3-4 mm, rough on edges, with a narrow yellowish-white margin at base which makes a line extending down into sheath. Sheaths 6-10 mm long i.e. about 4 times as long as wide. Fls almost or quite sessile in heads of 2-6 (some often undeveloped). Scales straw colored & straw consistency, slightly obovate about 9 x 4 mm, rounded at apex abruptly terminating in stiff point of about 1.5 mm, midway on calyx. Scales have nerves extending from point more or less to base, but edge of scale thin & nerveless. These scales seem 3-5 for each fl and in addition there seems to be a pair exactly similar under the fl head & under each group of fls in the head. Calyx about 13 mm high with many ‖ nerves, often reddish. Corolla 15 mm diam. Petals more or less magenta with somewhat darker lines & hairs toward base of blade. Anthers bluish.

6-19-31 Gentiana utriculosa L. Coste II 562, Bon 215 Fl. Montana via Dr. Trutmann. Ardese. Coste except that corolla has a 2-lobed fold in sinuses (like G. verna) and blue ill. Coste. Corolla 15 mm diam

6-19-31 ? Aster alpinus L. (See 6-12-31) Fl. Montana via Dr. Trutmann. ~~See~~ Prob same as 6-12-31 but not cfd with it.

6-19-31 Euphorbia Cyparissias L. (See) Fl. Montana via Dr. Trutmann.

6-20-31 Sedum album L. Coste II 114, Bon 112, B&H 167, BM.J. C.P. 319. Fl Glion-~~Montreux~~. Anthers maroon.

6-20-31 Cirsium palustre Scop. Coste II 373, Bon 175 J 859 = Carduus palustris L. B&H 261 Fl. Gorge du Chauderon. Viscous spot on back of bracts.

6-20-31 Potentilla Tormentilla Neck (See 5-29-31) Fl & immature fr. Gorge du Chauderon. Carpels slightly wrinkled.

6-20-31 Lunaria rediviva L. Coste I. 108, Bon. 28, B.M.J.C.P. 310. Fl. Glion (Gorge du Chauderon). St. hirsute at base, glabrous at tip. All lvs pub. with short white hairs. Lower lvs 8x6 in. Infl much more charmingly graceful than ill. Coste shows or than L. biennis. Nor ench is remembered. Two stamens short & hidden. Anthers narrower than filament. Odor delightful.

6-20-31 Epilobium angustifolium L. G 596, B.M. J.C.P. 547, B&H 156 = E. spicatum Lamk. Coste II 77, Bon 104. Fl. Glion.

6-20-31 Laserpitium latifolium L. Coste II 169. Bon 135. Fl & advanced fr. Gorge du Chauderon. St. smooth & glaucous. Lvs glabrous, thick, gray-green. Bracts of invol. very acuminate, white margined at base. Primary rays def. ridged & roughened above, secondary rays roughened above. Bracts of involucel filiform. Fr. as desc. but seems slightly flattened laterally (not dorsally Coste)

6-20-31
Plant which would be thot Chaerophyllum

temulentum L. Coste II 221, Bon 134, B&H 206 Except that contrary to Coste St is hollow, not swollen under nodes, not spotted brown & lvs. very shining beneath. Fr now 8-9 mm by 2×1 mm, valleculae smooth, styles 3 mm (3 times as long as stylopodium), spreading. Invol. none, bracts of involucels 8-10 ciliate but hardly white edged. Fls (as remembered from earlier study) white, petals glabrous. Lf very suggestive of ill. C. temulentum (Coste). Cf. with plant called Anthriscus silvestris Hoffm. 5-18-31. Segments of lvs. much broader. St has slight pleasant odor.

6-20-31 Hypericum perforatum L. Coste I 259, Bon 60 B&H 84, G 573. Fl Glion. (V-M. station) Fls 3 cm diam. Petals more or less dotted. Stigmas crimson (20×) Anthers tipped with black gland.

6-20-31 Hypericum montanum L. Coste I 262, Bon 60, B&H 85 Fl. Glion. Roadside west of V-M. Stigmas crimson (20×) Anthers tipped with black gland.

6-20-31 Aconitum lycoctonum L. (See 6-12-31) Fl. Gorge du Chaudron.

6-20-31 Chrysosplenium alternifolium L (See 4-14-31) Fl. Gorge du Chaudron

6-20-31 Epilobium montanum L. Coste II 98, Bon. 104, BvH. 157. Fl v young fr. Glion-Gorge du Chauderon, upper bridge. St. softly hairy (20X) but hairs not 1/5 mm so acc to Bon not E. parviflorum. Lvs almost sessile (might easily be thought so), almost glabrous. St. has crowded dead lvs. on lowest 1 1/2 in but (a.t.S.) shows no signs of stolons or rosettes.

6-20-31 Thlaspi arvense L. Coste I 132, Bon. 32, BvH 45, G 424 Fr. Cottage on path to Gorge du Chauderon. Lvs all fallen. Seed with beautiful concentric ridges like ill Coste.

6-20-31 Leontodon hastilis L. Coste II 418, G 863 Prdine in L. hispidus L BvH 268 = L. proteiformis Vill Bon 184. Fr. Glion on path to Gorge du Chauderon. (See 6-26-31

6-23-31 Lapsana communis L. G 861, BvH 281 = Lampsana —— L. Coste II 410, Bon 183 Fl v young fr. Glion. St pub. (almost hirsute) almost to infl. 3 1/2 ft high.

6-23-31 Digitalis lutea L. (See 4-25-31) Fl Glion
Lower lvs ciliate at base. Calyx gland-ciliate. Corolla with dark marks at base of lateral lobes and somewhat gland-pub. outside.

6-23-31 Hypericum hirsutum L. Coste I 258, Bon 40, B&H 85 Fl. Glion near La Veraz. Lvs hairy both sides, petiole so short lvs. might be considered sessile. Teeth on sepals much shorter than those on H. montanum L. Many sts. from same root. St perhaps very slightly reddened on opp sides but the lines not reddish (Bon) Petals with 1 or few black glands at tip. Anthers with no black gland at tip. Stigmas crimson.

6-24-31 Spartium junceum Lam BMf CP 421 = S. — L. Coste I 294, Bon 69. Fl, wild fr Val-Mont Cult. Ovary very white silky. Seeds smooth, with small toothlike lobe on one side of hilum.

6-24-31 Lactuca muralis Fresenius. Coste II 431 = L. — Gaertn B&H 271 = Phoenopus — Coss & Germ Bon 187. Fl. Glion.

6-24-81 Indigofera Gerardiana Grah. BMJCP 417
Shrub (Leguminosae) fl. Dr. Renolds yard. Young growth, which bears fls. white & rough with appressed white hairs attached in middle. Lvs 3½-4 in. overall with 11-17 lfts. all def. stalked & usually with short awl-shaped stipel, the terminal lft being stalked & attached to a prolongation of the rachis almost as long as the section of rachis between lfts. Stipules subulate about 3 mm long. Lfts oval or obovate, entire, rounded & apiculate at apex, ¾ x ⅜ in., rich green above, gray green beneath, both sides with hairs like st. Fls red-purple in racemes 4 in. long. Pedicels very short with small subulate, deciduous bracts. Calyx reddish with broad shallow sinus above so that the 5 teeth seem mostly on lower side, the middle one longest (calyx measured here is 2+ mm long. Calyx pubescent, tubular & fitting closely to corolla in bud, but spreading especially below when corolla opens and perhaps shriveling later. Keel & wings can be seen only in bud as they fall quickly after corolla opens. Keel a little longer than wings, obtuse, silvery rose pubescent toward upper edges outside and with a very def. spur on each side. Wings brighter colored than keel. Standard clawless, with a light spot, inside, at very base, 10 x 8 mm.,

hardly emarginate at top, standing very erect when fl first open (the wings forming a horizontal roof over the keel) and later (when wings & keel have fallen) standard hanging flat over ovary & stamens. Stamens 9+1, the anthers def. apiculate. Style slender bent at right angles with small capitate stigma. Ovary pubescent, ovules several. Standard silvery-rose on outside with very fine pubescence.. Best possibility in BM/SP is Indigofera Gerardiana Wall. p.417.
(See 9-2-31 (which makes ident almost sure)

6-24-31 Malva silvestris L.
Fl Glion edge of woods at Planaud. St to 10 in from what seems perennial stock, with longish spreading hairs, mostly several from same base (esp toward top) but because of length not making starry effect. Lvs. orbicular, 5-7 nerved at base, the corresponding lobes broad & shallow (most like ill of M. rotundifolia B&H or M. parviflora Coste in this respect) Sinus broad & shallow, the sides straight. Lvs. hairy both sides with hairs single or several from same base. Largest lf 2½ x 3 in. Fls several in axils. The 3 invol. bracts lanceolate or elliptic a little shorter than calyx, 2 so near together that they seem joined at base

6-24-31

base, the 3rd quite separate. Calyx 7.5 mm long. the lobes broadly triangular, lightly stary pubescent. Petals narrowly obovate, 17×10 mm, broadly notched, tapering to base with def. claw, the caxly being def. visible (from above bet. the petals towards ¼ 1-2 mm) except at very base of petal which is heavily bearded on edge with white hairs which completely fill up the space. Stamen column very lightly stary pubescent (20x). Carpels 10 (in 2 cases counted), glabrous. Fl about 3 cm diam; petals bright reddish purple with darker veins. This might be considered M. silvestris L. Coste I 236, Bon 55; BvH 90, G 568 BMJCP. 484 except that none of these manuals mention the bearded claw. See S&K II 246 which gives Malvas not mentioned in Coste or Bon

M. neglecta Wallr and var. brachypetala
M. mauritania L.
M. crispa L.
M. pusilla L.
} See BvH 89 & 90 and BMJCP 484

If M neglecta Waller S&K 246 = M. rotundifolia L of other manuals, perhaps this spec is the hybrid bet. M. neglecta & M. silvestris mentioned S&K 246. (see 7-19-31

6-24-31 Vicia Cracca L. Coste I 388, Bon. 86, B&H 127, G 526, BM&CP. 392. Fl. Glion. St 8-ridged, almost 4-sided. Rather crispy pubescent. Lfts 10-12 pr., 20x5 mm, pubescence beneath appressed, that above looser. Infl about length of lvs (no longer), flowering from below upward. Style flattened ~~laterally~~ laterally, many fld. 1-sided. Flrs 9-11 mm, purplish-blue. Standard has limb & claw of same length & width (~~within ½ mm~~ or perhaps claw ½ mm wider). Very young fr. looks as though stalk might be longer than calyx. Poss this is what Coste calls V. Gerardi All. (see 8-11-31

6-24-31 Trifolium medium L. Coste I 348 Bon 80 B&H 116, G 509, BM&CP. 406 Fl. Glion. St not glabrous. All stipules lanceolate-acuminate except those of lvs subtending fls which are more as desc. for T. pratense. L's ciliate on edge, entire. Later found with lvs blotched leaflets (G says "spotless") & st def. zig-zag.

6-25-31 Teucrium Chamaedrys L. Coste III 135, Bon 257, B&H 374, BM&CP. 651. Fl. Glion. Fl ½ in long. Corolla pale rose with darker spots & 2 lines of hair at base of lower lip. Under side of lvs, calyx & corolla outside and anthers at base all have minute (20x) white globules on surface. Later found with corolla darker

6-25-31 Anthyllis Vulneraria L. (See 4-16-31) Fr. Glion. Inflated calyx partly transparent, showing dark brown pod inside. Pod flat 5 x 3.5 mm on very slender stalk 2.5 mm. Seed one.

6-26-31 Verbena officinalis L. Coste III 144, Bon 258, B&H 375, G 688 Fl. Glion. Stigma 2-lobed: one lobe heart-shaped at top, the other a short tooth. (Or perhaps the tiny heart is the 2-lobed stigma on style which is toothed shortly below apex) the style looking somewhat as if made of 2 parts grown together [9-25-34 Castle pure white roadway in waste land with plants of normal color.]

6-26-31 Vicia dumetorum L. Coste I 386, Bon 86 Early fl. Glion. Rd Mont Fleuri to V-M. farm. St. very angular (at base really winged) short-hairy & roughish on angles. Petioles & peduncles angled. Largest lft 45 x 23 mm; lfts decreasing in size toward end of lf. all mucronate. Buds 15 mm overall, reddish purple. Stamen tube not very oblique. Style densely bearded in tuft on back, the stigma short

6-26-31 Campanula rapunculoides L. Coste II 500 Bon 199, B&H 286, G 767, BM.C.P. 742 ~~Fr~~ Fl. Glion ~~Plt. before unexpand.~~ Cfd with below lower part of infl.

sometimes a panicle. This is C. at H.H.

6-26-31 Campanula Trachelium L. Coste II 500, Bon 199, B&H 285, G 964 B.M. & C.P. 742 Fl. Glion. ~~Perhaps escaped.~~

6-26-31 Picris hieracioides L. Coste II 420, Bon 185, B&H 268 Fl. Glion. ~~B.B.~~ this the fruiting heads tend to be spherical below & inner (longer) bracts of involucre bulge outward longitudinally making a little boat: both clear which would point to P. Sprengeriana Lamk acc to Coste (peduncles not swollen at top & seed only 1/2 length of pappus) But achenes not strongly curved (Coste) & its transverse wrinkles not visible to eye (Bon)
Note also that upper lvs are much like ill for P. pyrenaica L (Coste) which evidently is inc in P. hieracioides L. in other texts. Hairs on lvs. & st mostly with short bifurcation at top (prob what is meant by "barb" G. & "hooks" B&H. Heads 3 cm. diam. The 5 teeth of rays red-brown tipped on outside, showing plainly as fl. expands [Common later at Glion]

6-26-31 Fumaria officinalis L. Coste I 68, Bon 14, B&H 22, G 418 Fl Glion. Seems nothing else goes. in Coste. Fl 7-8 mm, rose color, very dark at tips.

6-26-31
tip, tho' the sepal 2+ x 1+ mm seems a bit small & is only slightly larger than pedicel.

6-26-31 Allium oleraceum L. Coste III 334; Bon 299, B&H 482 Bud. Glion. Lvs 2.5 mm wide, edges rough, the rounded back more or less distinctly veined.

6-26-31 Geranium pratense L. (See 6-8-31) Fl & immature fr in borders at Val-Mont here & there looking as if weed. Fls 3.5-4 cm wide. Pedicels & fr bent downward (as ill Coste & B&H) not pedicels bent downward & fr erect as in G. pyrenaicum L. [Cortla is white on some plants in V-M borders. Noted & studied 1933-4]

6-26-31 Agrimonia Eupatoria L. Coste II 58; Bon 102, B&H 147 Fl & young fr. Glion. No glands on any part of plant.

6-26-31 ? Sedum kamtschaticum Fisch & Mey. Fl. BM of CP 3201
Cult. Hotel Victoria Glion. Petals a clean yellow but infl. ~~looks more reddish~~ affected by stamens reddish yellow & carpels early turning reddish. Fls 5/8 in across. Lower lvs ~~spat~~ short

spatulate. Upper lvs 1½ x ½ in., rhomboidal the lower half cuneate & entire, the upper half toothed but apex rounded-obtuse. Only form in BM of C.P.

6-26-31 Lysimachia Nummularia L. Coste II 536, Bon 209, B&H 302, G. 645, BM of CP. 585. Fl. Ilion Flvs about 1.5cm diam. Sepals, petals & lvs all show tiny red spots (20x) St flattened with deep groove on each side instead of 4-sided

6-26-31 Hypochoeris radicata L. Coste II 415; Bon 184, B&H 370, G 863. Fl & fr. Ilion. Field no. side of rd bet. V-M & Ilion. Sts hollow at least in upper part and enlarging toward top. Achenes 5mm, beak 6mm aigrette almost 10mm.

6-26-31 Centaurea Jacea L. (Same as 6-8-31) Upper lvs as long as or surpassing heads.

6-26-31 Centaurea Scabiosa L (See 6-8-31) Fl Ilion

6-26-31
Bromus asper Murr. Coste III 645, Bon 367 = B. ramosus Huds. BVH 550 Fl. Glion ligule 3 mm high. Lvs glabrous, very rough on edges. ~~Glume~~ Lemmas pubescent toward the scarious edges.

6-26-31? Cerastium Biebersteinii DC. BMJCP 267 Fl & fr. Cult. Val-Mont. Lvs 1-1¾ in long and 3/16-¼ in wide. Certainly this if in BMJCP.

6-26-31? Arabis hirsuta Scop. (See 4-15-31) Fr Glion. As well as can be remembered this is same species as 4-15-31. St 20 in high, infl 7 in. Lower pod 1⅛ in; upper pods ⅞ in; 1 mm wide, closely appressed. Seeds wingless but sometimes with sharp edge. Seeds brown with darker edge.

6-26-31 Solanum Dulcamara L. Coste II 613, Bon 227 BVH 330, G 713 Fl. Glion

6-26-31 Sonchus oleraceus L. Coste II 435, Bon 187 BVH 273, G 865 Fl. Glion.

6-26-31
Leontodon hispidus L. Coste II 418, B&H 268 = L. proteiformis Vill Bon 184 = L. hastilis L. var. vulgaris Koch G 863. Fl. Glion. Buds nodding. Hairs on lvs & scape often divided into 1-4 short branches at top. Bracts of invol. hispid with straight hairs

6-26-31 Poterium Sanguisorba L. (see 5-7-31) Fr. Glion.

6-26-31 Euphorbia helioscopia L. Coste III 232, Bon 280 B&H 405, G 549 Fr. Glion not common.

6-27-31 Circaea lutetiana L. Coste II 84, Bon 105 B&H 160 Fl & young fr. Glion. (woods toward Chamby)

6-27-31 Prenanthes purpurea L. Coste II 433, Bon 187 Early fl. Glion

6-27-31 Thesium pratense Ehrh Coste III 217, Bon 276 = T. pyrenaicum Pourret. S&K ~~Et.~~ Unripe fr.
I 205
~~Sonzier~~ Chamby.

6-27-31 Epipactis latifolia All. Coste III 414, Bon 309 = E. Helleborine Crantz B&H 454 Fl. Glion woods just above Chillon [Query 7-30 & 81-33 if this could have been E. atropurpurea ?]

6-27-31 Stachys officinalis Franch. BM of CP 643 = S. —— Trev. B&H 367 = S. Betonica Benth = Betonica officinalis L. Coste III 121, Bon 254 Fl. Glion (Chambaband.) Calyx tube 5 mm, teeth 1 mm. Corolla 15 mm or slightly less. Exterior stamens show no tendency to curl outward.

6-27-31 Anthericum ramosum L. Coste III 344 Bon = Phalangium —— Lam. Bon 301 Early fl. Glion & Chambaband. (See ? A. of 6-12-31) Lvs 6-10 mm. wide to 18 in long, keeled on back and "canaliculés" at base but nearly flat higher up.

6-27-31 Knautia silvatica Duby Coste II 275, Bon 47 Fl. Woods east of V-M. Fl. hardly distinguishable from K. arvensis Koch (Fr. not old enough to compare. Lvs like ill. Coste, tooth (not divided as K. arvensis), tapering to base 1 in or more wide. Lvs to 9 x 3 in. Lvs not greatly dif in color from K. arvensis

6-28-31 Filipendula Ulmaria Maxim BM&CP 350 G 485 = Spiraea —— L. Coste II 10, Bon 96, B&H 136 Fl. Glion opp 1st saw-mill. Lvs green beneath (Coste says "vert ou blanc-tomenteux"). (G and BM&CP say "white-tomentose")

6-28-31 Asperula cynanchica L. Coste II 256 Bon 143, B&H 223 Fl. Glion Path V-M to Church.

6-28-31 Fagopyrum esculentum Gaertn BM&CP 246, G = F. —— Moench G 363 = Polygonum Fagopyrum L. Coste III 203, Bon 273 Fl. Glion.

6-28-31 Galium verum L. Coste II 247, Bon 140, B&H 220, G 748, BM&CP 710 Fl. Glion west of town.

6-28-31 ?? Erigeron speciosus DC. BM&CP 777 Fl. Cult. Val-Mont. St. ridged. Fl-heads almost 2 in diam of which disk is 3/4 in & rays 5/8. Lower lvs oblanceolate to 7 x 3/8 in. St lvs 3 x 7/8 in not greatly narrowed to the sessile partly clasping base. Lvs thin, dark green rather stiff & shining, more or less distinctly 3-nerved. Invol. bracts many, very narrow and acuminate, hairy.

6-28-31 Colutea arborescens L. Coste I 376, Bon 85, BM of CP 414 Fl & unripe fr. Col. by Dr. Renold from "other side of lake". Standard marked with reddish lines at base. Wings narrow, almost erect, their tips about as high as tip of keel but (if laid along keel) shorter than keel. Style def. hooked at top & hairy on inside. Pods to 2½ in long.

6-28-31 Epilobium hirsutum L. Coste II 77, Bon 104, BUH 156, G 596, BM of CP 548. Fl. Glion. St. with short gland hairs & fewer fine white straight hairs 1-1½ mm long.

6-28-31 Galium Aparine L. Coste II 244, Bon 142, BUH 222, G 748 Fr nearly ripe Glion. Lvs to 1½ in. Fr. 4 mm wide across face.

29
6-28-31 Teucrium Scorodonia L. (See 4-22-31) Bud which opened in house. Filaments deep red, the longer ones with long white hairs outside. Pollen pinkish-yellow. Calyx & corolla outside softly puberulent. Lvs. beneath, calyx, corolla & base of anthers with minute white globules.

6-30-31 ? Phyteuma spicatum L. (See 5-10-31) Fl withering. Old'd Crête de Bau - Caux. Root (top only col.) large & fleshy bearing in addition to fl-st, groups of lvs or single lvs & showing various warty places where lvs or sts had prob. been borne previously. These lvs. & basal lvs of st. ~~broadly~~ almost or quite as broad as long, deeply & narrowly cordate with purplish brown ~~stripe~~ spot in middle. Fls whitish, too withered when studied for details. Head cylindrical 2 3/4 ~~by~~ 3/8+ in.

Caux
6-30-31 Luzula nivea DC. (See 6-14-31) Fl. Anthers pale yellow becoming brownish only when withering and slightly (not 1/2 again) longer than filaments, but infl dense as per B not L. albida DC. Coste III 456. Infl. less than 1/2 as high as bract.

6-30-31 Veratrum album L. (See 6-12-31) Fl. Caux. Petals greenish.

6-30-31 Pedicularis foliosa L. (See 5-29-31) Fl. Rochers de Naye. Note: 2 folds in lip as ill. (Coste).

6-30-31 Sonchus alpinus L. Coste II 434, = Mulgedium alpinum Less Bon 188 = Lactuca alpina Benth B&H 272 = Cicerbita —— Wallr. 3.VA ~~237~~ II 725 Bud Jaman. Infl. now purple, the long narrow bracts conspicuous.

6-30-31 Carduus personatus Jacq Coste II 380 = C. Personatus Jacq Bon 177. Fl. Above Crête de Ban.

6-30-31 Cirsium oleraceum Scop Coste II 375 Bon 176 Fl. Old road below Crête de Ban. Mid-ribs strongly keeled ~~below~~ beneath.

6-30-31 Senecio cordatus Koch Coste II 306, Bon 164 Fl. Below Jaman at Châlet where V-M. cows kept. Upper half of st very lfy as had been lower half where lvs now dead. Lvs thickish, very rugose, with remains of white pubescence above. Fl heads about 2.5 cm diam; rays straggly (See 7-11-31)

6-30-31 ? Crepis blattarioides Vill Coste II 447, Bon 190 Fl & young fr. Common on paths above Crête de Ban. Lvs. like ill (Coste) not like ill (Bon)

But each of upper lvs. subtends a branch (naked or with 1-2 bracts near tip) bearing 1 head. (See S v K. II 366 which suggests that monocephalous plants are only a form of the species) Fr too young to count ribs. Pappus bright white now 7 mm while achenes are 8 mm in oldest head. Outer bracts spreading to give effect of double involucre.

6-30-31 Tofieldia calyculata Wahlenb. Coste III 297 Bon 291 Fl. Old rd below Crête de Baux. Lvs to 5 in, sts to 9 in high. Calycule shallowly lobed but not def. 3-lobed.

6-30-31 Papaver alpinum L. Coste I 59, Bon 13. Fl. Rochers de Naye. Lvs glabrous, gray green; peduncles with stiff brownish appressed hairs, more frequent & darker towards top of st but hairs on calyx not appressed.

6-30-31 Dianthus superbus L. Coste I 191, Bon 47 BMJCP 264 Fl. Caux. Lvs in middle to 5 cm x 3 mm rough on edges. Mid-nerve only visible. Calyx more or less purplish 2.5 cm long. Petals with greenish base (of limb) bearded with purple hairs.

6-30-31 *Arenaria trinervia* L. (see 5-29-31) Fl & fr. Caux in woods on way to Massillon. Appendage at hilum of seed ridged (or fluted) from center outward and scalloped on edge. Seed shining & smooth except on edge where it is faintly transverse-wrinkled. Sepals widely scarious-edged the three nerves visible (20x) only from inside, if at all. Petals often only 1 or 2, or none. Open pod with teeth rolled back exactly ill. (Coste)

6-30-31 *Gentiana purpurea* L. Coste II 560. Bon 214. Fl. Jaman-Crête de Ban (Ident. acc to Coste. Note that desc & ill Bon *G. Burseri* Lap & *G. purpurea* L. seem reversed with desc & ill of these 2 species Coste) St 25-35 cm high, somewhat hollow. Calyx cut almost to base, almost entire, <u>no teeth</u>. Corolla 4 cm high with 6 <u>rounded</u> lobes 1 cm deep, maroon on outside, very slightly lighter on lobes inside thickly ~~sp~~ dotted brown. Tube inside greenish-reddish. No part of corolla yellow. Ovary & style flecked. Anthers united in tube. Stigmas twisted. Fls sessile terminating st and also in groups of 2-3 in axils of the 2 pairs of lvs below the top. St lvs might be called acuminate & basal lvs broadly acute tipped. All 5-nerved. (Later spec. showed 1-2 foliaceous tips on otherwise

untoothed calyx in case of a few flo)

6-30-31 Stellaria graminea L. Coste I. 213, Bon 51, BVH 77, G 382 Fl. Jaman-Crête de Bau. Ciliation at base of lvs, on bracts & sepals slight but def. Bracts to 5 mm long very narrow & acuminate, green keeled & more or less scarious border. Sepals 4 mm long ~~very~~ acuminate. Petals 6 mm, cut ~~almost~~ to base. No peduncle more than 23 mm. Fruiting ~~pedicels~~ peduncles strongly deflected. (Only other poss. acc to Coste might be S. palustris Ehrh = S. glauca with which acc to G has lvs "not at all ciliolate at base"

6-30-31 Linaria alpina Mill Coste III 19, ~~Bon~~ = L. —— DC. Bon 233 Fl RR track above Jaman.

6-30-31 Pedicularis Barrelieri Reich Coste III 54 Bon 240 Fl. Rochers de Naye. Corollas a pale, slightly greenish yellow turning brownish as they wither. Upper bracts tend to become 3-lobed of which the 2 lower lobes are entire & linear, the middle lobe broader & toothed; lower bracts like miniature lvs. Calyx glabrous with entire lanceolate teeth, ciliate, not cut quite to middle

6-30-31 Thalictrum aquilegifolium L. (See 6-12-31)
Fl. Rochers de Naye and common on paths above Jaman station.

6-30-31 Adenostyles albifrons Rchb. (See 6-12-31)
Fl. Rochers de Naye.

6-30-31 Carduus defloratus L. Coste II 381, Bon. 177
Fl. Rochers de Naye. Seems only poss. Lvs thickish & smooth to touch. Lower bracts of invol. green, spreading, glabrous except for minute hair on edges, with 1-nerve which is slightly stronger toward apex; tip dark pointed but not pricking. Inner bracts becoming purplish & with some signs of exceedingly minute puberulence.

6-30-31 Crepis montana Tausch Coste II 446 (= Hieracium montana Jacq.), evidently = Soyeria montana Mann Bon. 190. (a) Fl. Rochers de Naye
Invol. mossy looking with longish spreading hairs of yellowish green.
b. (Unique) Fl. Jaman - Crête de Bau. Achenes & pappus (a. & S) each about 6 mm long. Pappus cream colored or tinged. Juice (in a & b) drys pinkish.

6-30-31 Senecio Doronicum L. (See 6-12-31) Fl Rochers de Naye. Rays about 20, ~~[illegible]~~ light orange. Tips of bracts black. Bracts of involucel almost or quite as long as those of involucre, more or less straggling. Few black-tipped. Involucel of many bracts or fewer (so as to be incomplete.)

6-30-31 Aronicum scorpioides DC. Coste II 298 = Doronicum grandiflorum Lam. Bon. 162 SUR. I 691 ~~345~~ Fl Rochers de Naye. Plant about 10 in high; heads solitary to 3½ in diam. Whole plant softly pubescent with short hairs which feel glandulous to touch but do not look glandulous in microscope (20 X) Achenes of ligules (at. S.) are nearly as hairy as those of disk florets.

6-30-31 Erigeron alpinus L. Coste II 281, Bon 161 B & H 237 Fl Rochers de Naye. Surely E. & surely this acc. to Coste. Fls 2 on st. (1 terminal & another terminating very short branch in one of upper axils) as in ill Coste. Fl head 15 mm diam. Rays pale pinkish, 9 mm overall x 1 mm wide. Exterior tubular fls look as tho stamens abortive. Achenes (a.t.S.) appressed silky pubescent. Cfd with Aster alpinus L. but, except as to size & color of fl, dif hard to ex- press in words. (Later 3-fld sts. found)

6-30-31 Aster alpinus L. (See 6-12-30) Rays 20 x 3 mm dark blue-lilac.

6-30-31 Bupleurum ranunculoides L. Coste II 203; Bon 131 Fl. Rochers de Naye. St 15-23 cm. high

6-30-31 Campanula thyrsoidea L. Coste II 408 = C. thyrsoidea L. Bon 198. Fl. Rochers de Naye. Fl. subtended by 2 oval-acuminate bracts as long as calyx. Calyx pub. on ribs & edges (not as much dif bet. tube & lobes as Coste suggests)

6-20-31 Alsine verna Bartl. Coste I 204. = Arenaria —— L. Bon 49. B&H 70. part of = Minuártia —— Hiern S&K ~~104~~ F245 Fl & capsules of old fr. Rochers de Naye. Plant forming mat with many ascending sts. Old lvs at base of st show plainly 3 nerves (Bon). St-lvs. to 8 mm long, subulate but blunt, broadest at base (about 1.3 mm) Plant glabrous except minute gland-pub on upper st, pedicels & calyx. Petals 5 mm long, broadly oval, entire & obtuse at apex, abruptly narrow to short claw. A yellowish disk has 5 lobes alt. with petals. 5 stamens (opp petals) in sinuses

disk and 5 (alt with petals) in lobes of disk. Stamens as long as petals, anthers faintly lavender. Styles 3 or 4. All old capsules examined 3-valved.

6-30-31 Saxifraga androsacea L. Coste II 138, Bon 115 Fl & unripe fr. Rochers de Naye. Heights 4½-8 cm. St., lvs & calyx pubescent, the hairs on upper part tipped with dark gland. Lvs all entire, obtuse, the dried ones at base blue ill (Coste). Fl 1 cm diam. Petals hardly emarginate, 2.5-3 mm wide, very faintly 3-nerved, white.

6-30-31 Botrychium Lunaria Sw Coste III 680, Bon 381, B&H 578, G 48. Sp. Rochers de Naye.

6-30-31 Asplenium Filix-femina Bernh G 40 B&H 585 = Athyrium —— Roth Coste II 691, Bon 380 BMfCP.68 Sp. Crête de Bau-Caux.

6-30-31 Athyrium alpestre Nylander. Coste III 690, Bon 380 = Polypodium —— Hoppe B&H 579 Sp. Frond very like above (see B&H) but spores

6-30-31
spores small round and naked, at edge of lobe with tooth often curving somewhat [illegible] over spores.

6-30-31 Trifolium badium Schreb Coste I 340, Bon 77. Fl. Jaman & below. Heads globose 1.5-2 cm diam. the 3 longer teeth hairy a vill (Coste) Denticulation reaches below middle of lft.

6-30-31 Calamintha alpina Lamk (See 6-12-31) Fl Rochers de Naye & bet. Jaman & Crête de Bau. Corolla pub. outside, lower lip inside variously marked — sometimes with bright white.

6-~~29~~ 30-31 Laserpitium Siler L. Coste II 169, Bon 125 - Fl & young fr. Rochers de Naye. Ident seems sure altho fr. too young to show mature char.

6-30-31 Dianthus silvestris Wulf (See 6-12-31) Fl Rochers de Naye. Plant to 6 in high. Lvs 1 mm wide. Calyx 23 mm. high. Of six fl. in same tuft, 3 had 2 bracts and 3 had 4 bracts.

6-30-31 Epilobium trigonum Schrank Coste II 79, Bon 105 Fl. Rochers de Naye. Lvs in 3's. Stem with 3 pubescent lines. (Found later with lvs in 4's)

6-30-31 ? Hieracium villosum Jacq. Coste II 463 = H. — L. Bon 194. Bud Rochers de Naye. Ident as nearly as poss a.t.s. Lvs very like ill Coste. Heads gray-fuzzy a.t.s. Fl unopened bud. (see 8-5-31

6-30-31 Sorbus Chamaemespilus Crantz Coste II 72 = Aria — Host Bon 103. Bud Rochers de Naye. Lvs tending to be rounder at base than Coste's "atténuées" suggests and teeth not double. Petals seem pubescent inside. Young sts. cottony pubescent. Each fl has one long, narrowly linear bract prob caducous. Bud Rochers de Naye. Also young fr.

6-30-31 Vaccinium uliginosum L. Coste II 504, Bon 200, B&H 289. G 640. Fl. Rochers de Naye [7-4-34 Fl & young fr. R. de N. Note calyx teeth close over top of young fr. while in V. Myrtillus top of young fr is ofaled] fr.

6-30-31 Salix reticulata L. Coste III 266, Bon 288 B&H 428. ♀ fl. Rochers de Naye. Petioles red. Catkin

6-30-31
Catkin peduncled, opp. uppermost lf with bud between as desc (B&H) Gland usually divided into 2 narrow, sometimes toothed at top, lobes (See Coste) Scales & stigmas red.

6-30-31 Salix retusa L. (See 5-29-31) F fr ♂ and ♀. Note that, while ♀ have only 1 gland as desc 5-29-31, ♂ fls have 2 glands of which 1 stands in front and 1 behind the 2 stamens.

6-30-31 Ranunculus alpestris L. (See 6-12-31) Fl. frequent Rochers de Naye eastern ridge.

6-30-31 Veronica saxatilis Jacq. Coste III 39 which must equal V. fruticans Jacq. B&H 346, S&K I 593. Fl Rochers de Naye. Corollas fallen when studied. St slender but def. woody, decumbent & prob. rooting, throwing up herbaceous fl-sts to 3 in. These with numerous pairs of opp lvs, closer & smaller at base as in ill (Coste) Lvs obovoid or oblong, scarcely petioled, entire or with 1 or 2 obscure teeth on each side below the rounded or obtuse apex. Plant nearly glabrous below, def. downy above with erect hairs

not glandulous. Capsule (a.t.s.) hairy, not at all emarginate. Style 5 mm long. Largest lvs. 12 X 4 mm. Prob. inc in V. fruticulosa L. by Bon 236

6-30-31 Arabis hirsuta Scop. (See 4-15-31 & 6-26-31) Europe fr. Rochers de Naye. Seems to be same as found commonly around Val-Mont.

6-30-31 Helianthemum italicum Pers. Coste I 149 prob = H. oelandicum DC. Bon 36, which = H alpestre DC SKI 153. (See 5-29 & 6-12-31) Fl. Rochers de Naye

6-30-31 Aconitum Napellus L. Coste I 52, Bon 11, BVH 14, BMJCP 285 Bud. Rochers de Naye.

6-30-31 Orchis globosa L. (See 6-12-31) Fl. Rochers de Naye

6-30-31 Orchis latifolia L. (See 6-12-31) Fl. Above Crête d'y Ban. Herbaceous parts of infl with more or less strong purplish hue.

SvKI 150
angustifolius Curtis sap exsertus (Haw)
6-30-31 Narcissus ~~poeticus L.~~ (See 5-12-31) Fr. Near above. Seeds ± oval, black, smooth, shining.

6-30-31 Myrrhis odorata Scop. Coste II 223, Bon 134 BvH 204, BMDCP 566 Fr not quite ripe. wood espec. ~~[illegible]~~ above Crete dy Bau. ~~[illegible]~~ Caux, prof above & below Crete dy Bau. Fr to 23 mm long. Infl irreg as ill (Coste & BvH) Fr as ill. BvH. St. glabrous below, striate but not ridged. Lvs softly pubescent both sides.

7-4-31 Sonchus asper Hill G 866, BvH 273, = S. — all Coste II 436 = S. — Vill Bon 187. Fl & fr. Caux eastward on rd toward Sonchaux. Achenes brown, 2-2.4 mm long, thin edged with 3 faintish longitudinal nerves on each side, otherwise smooth. St. 5 ft high. Peduncles have glandular hair, and a few on invol. Fls pale yellow. Auricles of lvs rounded. Cfd with S. oleraceus L. Lvs darker green, more prickly, less divided

7-4-31 Milium effusum L. Coste III 580, Bon 357, BvH 527, G 122 Fr. Woods Caux-Glion. Lvs to 10 in × 16 mm. Spikelet 3-4 mm. Glumes minutely scabrous, pale, faintly 3-nerved.

7-4-31 Melilotus officinalis Lam. H 576, Bon 76 SvKF 398 = M. arvensis Wallr. Coste I 333, BvH 113

F(+ young fr. Caux. Ulf 3 poss in S.T. this seems only one. Fls 5-6 mm long (which rules out M. indica All.) and lfts broader & more dentate than M. altissima Thuill. also pod not pubescent. Plant almost 3 ft. high. Dif in length of petals usually def but not great. Very young pods show transverse wrinkles on sides & upper edge broad. Peduncles aristate only because upper bud fall early. Stipules awl-shaped, entire (or very narrowly lanceolate acuminate)

7-4-31 Calamintha ascendens Jord. Coste III 96 *
See Satureia Calamintha Scheele ssp Nepeta Briq. SvKI 570 See also Bon 249, BH# 363, G 706. ~~St ht~~
Fl. Val-Mont Station. St. branched. Lvs to 3.5 x 3.3 cm; petioles to 1 cm, but upper lvs & petioles smaller. Peduncles usually rather longer than petiole but much shorter than lf. Calyx 9 mm overall, teeth very unequal, the upper 3 strongly recurved, def pubescent & ciliate, hairs in throat spring from below sinuses & are included. Corolla surpassing throat of calyx by 10 mm (to top of upper lip). pale rose-lilac the lower lip marked darker & white. Corolla 15 mm overall. *[8-21-33 should not this be ssp ascendens Briq.?] [Or is this C. officinalis Moench ? See 8-31-33

7-4-31 Epilobium rosmarinifolium Haencke,

7-4-31
Haenckea Coste II 77. Bon 104 = E. Dodonaei Vill. sap p. 56
——— Schinz & Thellung. SvKI #66. Bud. Caux s'd eastward toward Sonchaux. 70 cm high Branched at base & fascicles in axils throughout. Plant gray-green with st. pinkish, pubescent with soft dirt appressed white hairs. Lvs narrowly linear, narrowed at each end, obscurely toothed, the largest 55 x 5 mm

7-4-31 Clematis Vitalba L. (see 4-29-31) Bud. Glion

7-4-31 Vicia silvatica L. (see 6-6-31) Fl & unripe fr. Hilum almost 2/3 of circumference of fr.

7-4-31 Coronilla Emerus L. (see 4-25-31) Unripe fr.

7-4-31 Rumex obtusifolius L. Coste III 199, B&H 394, G 356 = R. ——— DC. Bon 272. Fr. Caux.

7-5-31 Rumex alpinus L. (see 6-12-31) Jaman Station. Fr. Cf. with R. obtusifolius & R. Acetosa.

7-5-31 ? Solidago Virga-aurea L. Coste 288, Bon 160. = S. Virgaurea L. B&H 237 Early fl. Jaman Station. St 6 in, stiff, erect, ridged, glabrous or pubescent. Fl. heads 17 mm diam, about 10 rays. Diam of disk 7-8 mm. Bracts with somewhat fluty whitish edges esp. at the broadened base. Anthers not tailed. Lvs & parts much like ill (B&H) but infl narrower & heads relatively much larger. Stems only poss in Coste. Achenes (a.t.S.) slightly pubescent.

7-5-31 Ranunculus aconitifolius L. (See 5-12 & 29-31) Unripe fr. Jaman Station Achene differs from ill. (Coste) in that beak tho' more or less bent forward is rarely as def. curved as in ill.

7-5-31 ? Phyteuma spicatum L. (See 5-10-31) Fl. Jaman. Fl. yellowish-greenish white; st. def. hollow & ridged, ~~Stamens~~ Filaments ciliate on the enlarged bases, style hairy on upper part. St. lfy to summit but upper lvs sessile, narrowly lanceolate, the smallest 1 in long. All lvs with secondary nerves prominent beneath. Basal lvs from 1 to ¼ in longer than wide. Lowest Bracts narrowly lanceolate not as lfy ~~and~~ nor dentate as desc for P. Halleri All but some of other char. more like this than like P. spicatum. (Still a mystery)

7-5-31 Veronica fructiculosa L. Coste III 30 Bon 236 S&KI 599, B&H 346 Fl & young fr. Dent de Jaman. Fls 12-15 mm across, pale pink with bright carmine lines esp. on upper petal, greenish yellow in center. No corolla of V. saxatilis 6-30-31 to see if smaller (B&H). Cf. otherwise with V. saxatilis of 6-30-31. Plant of duller green. Lvs less tapered & more nearly petioled at base, acute instead of rounded at apex, slightly folded forward on mid-nerve, & spreading instead of flat and rather erect. Upper parts esp. pedicels & calyx glaud.-pub. & tending to be reddish. Styles 7 mm.

S&KI 232
7-5-31? Gypsophila repens L. Coste I 187 Bon 46, BM of C.P. 265. ~~St~~ Fl. Dent de Jaman. Styles 2 and calyx cut to about 2/3 of length from top. (If not this only other poss. seems Moehringia polygonoides Mert & Koch Coste I 216 = M. ciliata Dalla Torre S&KI 248 and prob = Arenaria polygonoides Wulf Bon 49) St creeping, slightly underground, almost woody. Upright sts about 2 in. Lvs linear, glabrous, glaucous; those at base of st & flowerless tufts about 18 x 1.5 mm, pointed at apex (and perhaps at base); those on st. shorter; all thick, the 1 nerve often obscure. Fused as ill (Coste), but (at 5) lvs imp. inconclusive. Calyx

4 mm high, tube bet. lobes pale green & translucent, lobes green, pointed, with broad white edges, no nerves visible outside or inside. Petals extend 2-3 mm above calyx, white both sides. Corolla about 7 mm diam. Petals usually 5 but 4 & 6 found. Stamens twice number of petals, anthers pinkish. Petals oblanceolate, truncate or slightly emarginate at apex, narrowed to base. Capsule perhaps has very short carpophore (See 7-22-31) [8-14-33 seems to make sure that this was G. repens]

7-5-31 Hypericum quadrangulum L. Coste I 260, Bon 60 evidently = H. maculatum Crantz B&H 84, S&K I 451. Fl. Dent de Jaman. Cf. with H. perforatum L. Outside of petals with many elongated black markings. Lines on ovary (faint at 1.6) are vertical.

???
7-5-31 Campanula linifolia Lamk Coste II 501 Bon 199 (See S&K I 657-8) Fl. Jaman. Sts several from same root, decumbent at base & naked for 1½ in with many lf-scars, then ascending, stiff, angular & glabrous, 4 in high. Very lfy with lvs narrowly lanceolate, to 30×5 mm, sessile, narrowed at both ends, firm, darkgreen, glabrous except for few hairs on edges, entire or with

7-5-31
with occasional teeth. Fls in narrow panicle dark blue, 1.5 cm long. Calyx glabrous, its linear lobes about ½ corolla. Corolla lobes not curved backwards. (No other poss. in Coste) [But see 7-25-33 as to poss of this being C. Scheuchzeri Vill.]

7-5-31 Valeriana officinalis L. Coste II 262, Bon 144 B&H 226, OMDCP. 730. Fl. Jaman. Lfts usually 19, and 1 cm wide the widest part of some 12 mm. St 33 in high

7-5-31 ? Hieracium villosum Jacq (see 6-30-31) Fl. Jaman. Ligules with hairs of some yellow near base of blade on back. Stigmas greenish-yellow. Head 6.

7-5-31 Saxifraga muscoides Wulf (see 6-12-31) Fl Dent de Jaman. Seems same as former specimens except that lvs are none divided. Perhaps st. more slender.

7-5-31 Cerastium arvense L (see 6-12-31) Fl & unripe fr. Dent de Jaman. Peds about 9 mm, slightly curved upward.

7-5-31 Draba aizoides L. (See 5-29-31) Fr. Dent de Jaman Pod 9x3 mm, style 2 mm. Seeds 6-7 in each cell.

7-6-31 Anagallis arvensis L. Coste II 538, Bon 210, B&H 309, G 647 Fl. red. Glion. Lvs. black dotted beneath.
[9-17-34 Fl & fr. Red & blue sep. Differences exactly as desc S&K I 519 except that fr. of ssp coerulea has only 5 striæ]

7-6-31 Polygonum aviculare L. Coste III 207, Bon 274 B&H 398, G 358 Fl & fr. Glion. Nothing else similar given for Suisse (See S&K I 211). This is correct in all char but all its parts seem large. Lvs to 1¼ x 7/16 in. Fruiting perianth 4 mm or so all, lobes being 2+ mm. Seed 3+ mm.

7-6-31 Pastinaca sativa L. G 620, B&H 203, Bon 128 = P. silvestris Mill Coste II 180 Fl & fr (unripe) Glion St stout & deeply grooved.

7-6-31 Tilia tomentosa Moench B of C P 482 Bud, Trees cult in front of Nat. Church Glion. Tomentum on lvs beneath, branchlets & infl & calyx very closely appressed stellate, white on lvs, slightly yellowish elsewhere. Traces of stellate pubescence on the dark green upper side of lvs. No axillary tufts beneath. Petal-like staminodea 5, bet. stamens & pistil.

7-6-31 Verbascum nigrum L. Coste II 622, Bon 229, B&H 337 Fl. Glion Corolla 2 cm diam, inconspicuously marked purple at base. Hairs on st. lvs etc branched or stary.

7-6-31 Convolvulus sepium L. Coste II 571, Bon 317, B&H 317, G 671, BM J C.P. 610. Fl. Glion. Corolla pure white. Disk yellow. Lvs, on upper part of st. collected, 2x1 in

7-9-31 Papaver Rhoeas L. Coste I 60, Bon 12, B&H 19, G 416 BM J C.P 298 Fl. Glion. Disk cartilaginous.

7-9-31 ? Heliopsis helianthoides Sweet. BM J C P 769, G 830 Fl. Cult. Val-Mont. (Cut fls from table). Surely H. this spec. does not show if rays persist on mature achene. Anthers black (G), St is entirely smooth but lvs rough on both sides. Ligules to 27 x 9 mm, narrowing at base & somewhat at apex (so might be called oblong) Bracts of invol. about 13 mm long, the lower half thick tightly appressed (so that bracts look united) the upper half lfy about 4 mm wide, spreading with nerves visible to eye from inside. Scales of recept with obtuse yellow tips showing above unopened disk fls. Disk fls & rays same shade of bright deep yellow.

7-10-31 Androsace alpina Lamk. Coste II. 528, Bon 207. Fl. From Engadine. Lower lvs 9 x 3 mm slightly broadened at tip. Corolla about 7 mm diam, pink eye yellow with 5 slight scallops.

7-10-30 Androsace chamaejasme Host Coste II. 529 = A. C— Host Bon 391 Fl. From Engadine. Besides the long spreading hairs, st, bracts & calyx have very fine gland-pubescence. Bracts now as long as pedicel. Corolla 9 mm diam, white, eye white with flat ring in center. Lobes entire [7-17-34 Fl from Engadine. Eye yellowish. Corolla as it withers turns slightly pinkish with eye pink]

7-10-31 Saxifraga oppositifolia L. Coste I 135, Bon 114 B&H 173 & 447 Fl. Engadine. Styles erect & parallel.

7-10-31 ! Oxytropis montana DC Coste I 373, Bon 84, S&K I 411. Fl. Engadine. Fls dark blue (purplish at least when withered) ovary stalked, St (as collected) 5.5 cm high. Calyx 5+ mm long of which teeth less than 1.5 mm. Stipe now more than ½ of tube. ~~Corolla~~ Fl 13 mm overall. Pedicels 2 mm, bracts 3 mm. Lfts 13-14 pairs the largest 6 mm long. Stipules free (Coste says not but S&K if understood correctly say yes) Plant appressed hairy but not "velue-blanchâtre" Peduncles reddish. (see 7-22-31

7-10-31 Lloydia serotina Reichb Coste III 310, Bon 295; B&H 477 Fl Engadine

7-10-31 Nigritella nigra Reichb Coste III 405; Bon 312, S&K I 166 Fl. Engadine (But see also descr. N. rubra Richter S&K)

7-10-31 Primula integrifolia L. Coste II 524, Bon 266 Fl. Engadine. Corolla limb hairy at base inside

7-10-31 Gentiana bavarica L. Coste II 565; Bon 215. Fl. Engadine. Cfd with G. verna L. (See 7-22-31

7-10-31 Veronica saxatilis Jacq (See 6-30-31) Fl. Engadine. Corolla of a "beau bleu" reddish at ~~base~~ throat.

7-10-31 Galeopsis Ladanum L. Coste III 114, Bon 252 B&H 369, & 699 Fl. Glion - Montreux. St. 22 in high, much branched. Lower part of st obscurely & roundly 4 sided but branches def. 4 sided with band rather ~~lig~~ lighter in ~~texture~~ color & smoother in

texture down middle. Lvs with veins impressed above & prominent beneath, shape as desc. & ill (Coste) Corolla crimson with 2 white spots on lip and white & yellow at throat, the ~~swollen~~ dilated upper part of tube striped crimson & white. Anthers with under valves dif ciliate (20X)

7-10-31 Erythrea Centaurium Pers. Coste II 554, Bon 313, B&H 312 = Centaureum umbellatum Gilib G 656 SvKI 524 Fl. Glion-Montreux. St 17 in. Basal lvs 1.5-2 cm wide. St. lvs 14 cm. Fl 13 mm across.

7-10-31 Torilis arvensis Link. SvKI 483 = T. infesta Hoffm Bon 125 = T. helvetica Gmel Coste II 164 = Caucalis arvensis Huds. B&H 207 Fl & fr. Glion-Montreux. Fr (not ripe) has bristle purpliate.

7-10-31 Origanum vulgare L. Coste III 84, Bon 248, B&H 361, G 706, B M of C.P 649 Fl. Glion-Montreux. Corolla pale, bracts dingy purple.

7-10-31 Erigeron canadensis L. Coste II 290, Bon 161 B&H 237, G 818 Fl. Montreux-Glion. Study of this

7-10-31
this seems to show that plants in Majorca (4-18-30, 10-31-30, 1-16-31) were all Conyza ambigua D.C. Note: lower lvs of this at least 3-nerved (with secondary nerve branches) 10 mm broad while C. a— (Coste II 292) has "lvs 1-nerv-ed and 3 mm broad". This has invol. glabrous while C. a— (Coste) has invol. pubescent. Hairs on st. & lvs jointed (20X) as desc. Bas. 239 for Erigeron. Heads 5 mm high. invol 2-2½ mm wide. Lvs more or less long-hairy on surfaces but all exc. lower ones conspicuously ciliate to eye. Panicle narrow, no branch more than 2 in. Heads on branches on pedicels of 3 mm or less. Heads at tips of branches & at tip of infl on pedicels longer to 10 mm. Ligules def. white (20X)

7-10-31 Epilobium tetragonum L. Coste II 79. Bon 185 BVH 157 Fl & imcipe fr. Glion-Montreux. Longest pod now 2¾ in., seeds def. tuberculate (20X). Buds at base of st. as ill (Coste)

7-10-31 Corydalis lutea DC. (See 5-5-31) Fl & fr. Pedicels to 8 mm & pods to 15 mm and pedicels seem always shorter than pods (Coste says "equal") Pod thin edged with 1 prominent nerve on each valve (& perhaps other obscure nerves). Crest half as long as seed.

7-11-31 Lysimachia punctata L. Coste II 536 (Bon). BVH 302, G 645, BM, CP. 585. Fl. Cult in garden south of Bains d'Alliaz. Whole plant softly gland-pubescent. Lvs dark-spotted beneath. Corolla lin. biane, lobes finely glandular but not "ciliés-frangés"

7-11-31 Ranunculus Flammula L. Coste I 25, Bon 8, BVH 8, G 395. Fl. Mossettes. Roots & basal lvs (if any) not collected. St 1 ft high, hollow, glabrous ridged branched with 2-3 longish branches from lower axils. Lvs (~~xxx~~) yellowish green (lower), firm, looks glabrous but has short stiff tightly appressed hairs pointing upward. Lvs lanceolate or linear, & many more or less falcate, entire or slightly toothed, acute; the lowest broadest near tip and long narrowed below (into what would perh. be called a petiole), clasping about 6 x 1 cm; the upper ones shorter, narrower, more nearly linear & entire. Peduncles scarcely ridged, glabrous or with few hairs like lvs. Calyx with hairs like lvs, sepals caducous. Fls bright yellow, ½ in diam, ~~bright~~. Nectary pit with ridge (or lip) on lower side but no def. upstanding scale. Receptacle glabrous, Achenes glabrous not unusually numerous. Lvs suggest ill (Coste & Bon). In marsh with Epipactis palustris

[See 8-2-33]

7-11-31 Senecio cordatus Koch (see 6-30-31) Fl by brook above Bains d'Allhaz. 5 ft tall; fl heads 3.5 cm wide. Cfd with 6-30-31. Lvs less rugose prob because growing in wet shade [9-2-33 Receptacle deeply pitted as desc S&KI 692]

7-11-31 Arnica montana L. Coste II 399, Bon 162 Fl. Field above Mossettes. Pubescence of soft white hairs & brown glandular hairs.

7-11-31 Epipactis palustris Crantz Coste III 413, Bon 309 B&H 434. Fl Marsh at Mossettes. Petals almost white with tinge of crimson at base. Lower section of lip beautifully veined crimson with a broken band of yellow down the center. Nibbles at base of upper section of lip outlined in yellow at tops. Lowest bracts sometimes as long as fl.
[6-28-33 and 6-16-34 Bud in marsh Villeneuve-Bouveret; 7-18-33 common in full fl. V-B; 7-18-34 fls almost finished V-B.]

7-11-31 Lychnis Flos-cuculi L. (see 6-17-31) Fl & fr. in wet spots Les Pleiades - Mossettes. Scales at base of petal limb long variously cut.

7-11-31 Dianthus superbus L. (see 6-30-31) Fl. Pelrex-Chamby.

7-11-31? Chrysanthemum corymbosum L. BH] CP 759 = Leucanthemum —— S G Coste II 342, Bon 166. Fl Cult at hotel Les Pleiades. St def pub; lvs pub on veins below v also on surface (20×) Lf segments 1-2 cm wide. Hence perhaps the form L. Pourretii Timb (Coste). ~~St~~ Inf. 4 in diam v closely packed (giving effect of Achillea but clearly not A. because receptacle naked and achenes striate and with cuplike pappus. Each fl 1 cm diam, rays broad (almost orbicular) def 3-toothed; disk fls whitish, but disk because of stamens v stigmas presents a dull yellowish appearance to eye. Lvs to 9 × 5 in cut almost to rachis in lanceolate deeply toothed (but not pinnate) segments (Much like ill Coste II 353 of Achillea centifera DC) Lvs gland dotted both sides. Odor strong! Hairs on plant ct of many short articulations often with very fine tips.

7-11-31 Anthemis Cotula L. Coste II 345, Bon 167, BVH 247, G 846 Fl. Meadow above hotel Les Pleiades. Seems only poss., tho odorless. Lvs all 3-pinnate, the ultimate seg. short v narrow. Scales very narrow, pointed, shorter than fls and not found near circumference. Rays usually bare something in way of stigmas but perhaps sterile. Fr too young to study.

7-11-31 Carduus personatus Jacq. (See 6-30-31) Fl & fr. Bains d'Alliaz.

7-11-31 Cynosurus cristatus L. Coste III 627, Bon 365, BvH 555, G154 BMJCP122 Fl. Les Pleiades

7-11-31 Cirsium palustre Scop (See 6-20-31) Fl, common in wet places Les Pleiades.

7-11-31 Eriophorum latifolium Hoppe Coste III 468, Bon 325, BvH 504. SvK I 93. Fr. Wet places Les Pleiades. Pedicels 1-7 cm, all edged, some scabrous or pub. others almost glabrous. Pappus 15-20 mm. Achenes 3 x 1.5 mm broadest near top, rounded, apiculate (See SvK.) Lvs flat 4 mm broad. Scales thin 1-nerved, green, blackish toward apex.

7-11-31 ? Agrostis vulgaris With. Coste III 570, Bon 355, = A. tenuis Sibth BvH 536 = A. alba L. var vulgaris Thunb. G132 = A. capillaris L. SvK I 53. Fl. Les Pleiades. Spikelets 2.5 mm, Glumes purplish, [illegible] glumes [illegible] keeled & slightly scabrous [illegible]. Lemma slightly shorter than

glumes, awnless, denticulate at apex (like ill Coste). Palea ⅓ length of lemma. Branches scabrous. Ligule ± 1 mm. If not this must be A. alba L.

7-11-31 Galium rotundifolium L. Coste II 242, Bon. 139 Fr. Les Pleiades or Morsettes. Exactly like ill (Coste). Lvs 10x5 mm or smaller. St. decumbent at base with erect branches.

7-11-31 Lychnis dioica L. (See 5-29 & 6-12-31) Fr. Les Pleiades. Capsule 1 cm length x about 1 cm diam. with wide mouth & 10 tightly rolled back teeth. Seeds dull, tuberculate not concave on any part.

7-11-31 Molinia caerulea. Moench. Coste III 619, Bon. 364, B&H 562, B H of C P. 121 Fr. Les Pleiades meadow nr hotel. Lvs very acuminate. Fls deep, dull purple. (See 9-8-31

7-11-31 Luzula silvatica Gaud. (See 5-10 & 23-31) Fr. Les Pleiades or Morsettes. Seeds (20x) have no def. tubercle at top, but what looks like a slight puckering of outer skin.

7-11-31 Antennaria dioica. Gaertn (See 6-5-31)
Fr & withered fls ♀ & ♂. Back side of Les Pleiades. Certainly A. distinguished from Gnaphalium by chas (see ↓) head dioecious. ♀ pappus capillary united at base so as to fall in ring ♂ pappus thickened & barbellate at tips, receptacle elongated. Basal lvs mostly withered but each at (evidently from horizontal stolon) is throwing out at base horizontal stolons with spatulate lvs. These lvs 2 cm overall by 5 mm wide, densely white cottony beneath, less so but not green above. ♀ sts to 27 cm; ♂ sts to 17 cm, all simple, stiffly erect. St lvs linear, appressed-erect. ♀ heads now elongated to 10-12 mm, bracts narrow, white not spreading. ♂ heads now 5-6 mm high bracts white, broader & spreading.

7-11-31 Carum Carvi L. Coste II 209, Bon 132, BVH 191, B.M. of C.P. 567, & 614. Fr. Back side of Les Pleiades. Note filiform segments (as in lf) at base of sheathing petioles (Coste)

7-11-31 Scirpus sylvaticus L. BVH 578, G. 193 = S. silvaticus L. Coste III 473, Bon 325 Fr Les Pleiades - Moscettas

7-11-31 Juncus conglomeratus L. Coste III #50, Bon 319, B&H 487, G 273 Fl. Les Pleiades-Mosettes

7-11-31 Juncus silvaticus Reichard Coste III #52. Fl. Les Pleiades-Mosettes. Can be nothing else in Coste since per. div are almost equally acuminate, and at least sometimes, inner div. slightly longer. But outer div not "terminés par une arête" as Bon 321 desc J. — Reich. SVK I 129 gives as correct name for this species J. acutiflorus Ehrh. (See SVK I 129) J. articulatus L = J. lamprocarpus Ehrh which seems to differ from desc. Coste) See also B&H 488, G 277 for J articulatus L. Glomerules small (about 8 flrs less) perianth brown 3 mm long. Stamens 6, about half as high as perianth; Anthers about .6 mm & perhaps slightly longer than filament. Infl. branches exactly like ill Coste of J. silvaticus, Inv.l. bract with inconspicuous tip 2 cm or less. [Query: was this not J. lamprocarpus?

7-11-31 Nardus stricta L Coste III 674, Bon 371, B&H 545 Fl. Pleiades-Mosettes. But lvs & culm roughened by short upward pointing spreading hairs Culms 1 ft height

7-11-31 Equisetum silvaticum L. Coste III 713, Bon 383, B&H 572, G 52. Sterile at Morsettes.

7-11-31 ♀♂ Koeleria cristata Pers. Coste III 604, Bon 360, B&H 56 3, G 139 Fl. Les Pleiades meadow above hotel. St 2 ft high. Base of st. clothed in remains of dead lvs, but not swollen & bulbous. Lvs flat, 3-5 mm wide, ciliate. Sheaths & lvs almost glabrous. Culm finely striate & puberulent, becoming very soft hairy under infl. St lvs 3-4 in long, the culm extending naked for 1/3-2/3 of its length below infl. Infl about 3 1/2 in long. Glumes thin shining hispid on keel sharp pointed. Lemmas thin on edges, 3-nerved down the green back, scabrous, acuminate, not awned. Branches of infl. pubescent. Panicle looks silver & green to eye [6-16-34 Fl. Bouveret marshes Infl with silvery pinkey look when growing. Glumes pubescent and sometimes almost short (1/2 mm) awned]

7-11-31 Epilobium palustre L. Coste II 80, Bon 104, B&H 158, G 597 Bud & advanced fr. Les Pleiades – Morsettes St to 16 in high. St & lvs finely puberulent with short white upward curving hairs. Lvs entire, edges very slightly revolute, lanceolate, narrowed at base and long tapered to apex but tips blunt. Stigma ~~[illegible]~~ "en massue". Signs of stolons suspected!

7-11-31 Tofieldia calyculata Wahlnb (See 6-30-31) unripe fr. Les Pleiades brebraila.

7-11-31 Rosa glauca Pourr. BM&CP 346 = R. rubrifolia Vill. Coste II 55, Bon 101, S&KI 384. Fl. Les Pleiades above hotel. Young sts purplish & very glaucous (bloom sub ff). Lvs glabrous & very blue with faint reddish fringe on edges & beneath. Sepals entire or 1, 2 or 3 with few appendages, all slightly enlarged at tip, downy on edges & inside. Plant otherwise glabrous. Fls deep pink. Thorns few, often lacking on young growth & petioles, straightish or slightly curved downward, not def. hooked. Stipules of lvs. under infl enlarged.

7-11-31 Rosa canina L. Coste II 57, Bon 101, B&H 149, G 496, BM&CP 346 Fl. Les Pleiades on path toward northward. Ident. chiefly by the short def. hooked thorns & sepals as described BM&CP. Fls. pink solitary, pedicels with tiny caducous bracts.

7-11-31 Galium uliginosum L Coste II 243, Bon 142 B&H 221 Fl. Les Pleiades-Monsettes

7-11-31 Solidago Virga-aurea L. (See 7-5-31) Fl Les Pleiades.

7-11-31 Helianthemum Chamaecistus L (See 6-8-31) Fr. Chamby. Nerves on sepals reddish, Capsule almost = sepals, opening with 3 valves (loculicidally) Seeds many, not quite smooth (faintly tuberculate in longitudinal lines) Pedicels strongly reflexed.

7-11-31 ? Crepis paludosa Moench. Coste II 446, B&H 376, evidently = Soyeria —— Gool Bon 190 Uniflore fr. Les Pleiades - Mosettes. Difficult to be sure of number of ribs on achene (should be 10) [See 8-6-34]

7-11-31 ? Glyceria plicata Fries (See 8-27-31, Fl. Mosettes by water-trough in field east west of house. St 16-21 in high above upper roots (decumbent & rooting in mud) glabrous. St. lvs (badly withered when studied) short (about 4 in) rather abruptly pointed, glabrous, somewhat rough on edges. Sheaths closed almost to top, the upper one enclosing lower part of infl. Infl 9 in long, disarticulated with top of culm and perhaps articulated at each node. Infl consists for most part of 1 branch at each node (strongly spreading or reflexed) and 1 pediceled spikelet (erect and

closely appressed against the slightly flattened & curved rachis, but the 2 lower node may have 2 branches & 2-3 spikelets (pedicelled & sessile) and the uppermost nodes bear only pedicelled spikelets. Branches 2¼-1½ in long, bearing spikelets to within about 1 cm of base. Spikelets appressed to branches, about 1 cm or 12 mm long, to 8 fld. Glumes scarious (yellowish) 1-nerved, very obtuse; ~~not at all~~ lower glume 1.7 mm, upper glume 2.5 mm. Lemma convex (not keeled) 4 mm long, 7-nerved, not quite smooth, with apex obtuse & scarious. Palea practically as long, broad, 2-keeled near edges. ~~Stigmas~~ styles terminal. St. at base 3 mm diam. Best guess is some form of G. fluitans R.Br. Coste III 608, Bon 361, ~~I~~ 159. = Poa fluitans Scop. B&H 538

7-14-31 ♀ Rumex sanguineus L. Coste III 199. S&K I. 208. = ~~ang~~ & incl. R. nemorosus Schrad Bon 272 B&H 395. Fl & Fr almost ripe. Ulion (road east of V-M) Panicle leafy with lf at base of each branch & and at base of 1 or 2 of fl ~~bracts~~ whorls but most of whorls naked. ~~Each~~ In fl one of petals longer than others & all give promise of being equally tubercled but in fr the longest petal only has large whitish tubercle (½ its length & almost as broad) while others have tubercles less def. developed.

7-14-31 developed, or none. Pedicels articulated very near the base. Lvs not red veined. (See 8-10-31

7-14-31 Lonicera Xylosteum L. (See 5-16-31) Fr. Glion. Fr shining red but near apex traces of short glandular hairs, sepals barely joined at base. Bracts & bractlets persistent, the latter now red.

7-14-31 Staphylea pinnata L. (See 5-18-31) Fr. Shrub in grounds of Temple, Glion.

7-16-31 Lathyrus silvestris L. Coste I 402, Bon. 88, B&H 131, BMJ CP. 393 Fl Road Glion–Les Avants shortly beyond Café des Narcisses. Stipules ½ in long x 2 mm wide, not foliaceous as in L. latifolius. Fls smaller & more dingy; keel green. Standard green veined but "green spot on back" not as def. as suggested by B&H and BMJ CP.

7-16-31 Mentha silvestris L. Coste III 80, Bon. 248, BMJ CP. 645 = M. longifolia Huds. B&H 358, G 710, S&K I 576 Early fl. Road Glion–Les Avants by brook shortly beyond Café des Narcisses. Whole plant softly hoary. Lvs longer & narrower than ill (Coste and B&H) to 3½ x 1 in. Petioles sometimes 5 mm.

7-16-31 Cirsium acaule All. Coste II 375, Bon 176 B&H 363 Fl. Path Caux–Les Avants. Lvs. somewhat pubescent both sides. Heads 1-4. Invol bracts glabrous except for slight hairiness on edges. Lower bracts thickened at the almost obtuse, mucronate tips. Inner bracts much long, thin, purplish. All with tips appressed.
[8-6-34 Corolla limb much shorter than tube S&KI]

7-16-31 Erucastrum obtusangulum Reich (See 5-26-31) Caux Fl & Fr well advanced. Pods ± 3 cm of which beak is 4 mm. & contains no seed at base. Nerve on valve more prominent than edge of valve. Fls 8-9 mm high & 10 mm diam diag.

7-16-31 Linum catharticum L. (See 5-29-31) Fr. Glion. Capsules ± 3 mm high = sepals, false septa incomplete & ciliate. (4) Sepals somewhat glandular on edges

7-16-31 Cirsium arvense Scop. Coste II 384, Bon 175, ~~B&H~~ 858, S&KI 903 = Carduus arvensis Robs B&H 261 ♀ fls. Glion. Heads in fl about 20 mm high & 15 mm across. Invol 10 mm diam near base & tapering to top. Bracts appressed, the outer with elongate thickness at apex and small purple tips often spreading. Fls fragrant. Pappus tawnish. [7-28-34 Fr. Glion Pappus 5-8 mm longer than corolla. S&KI]

7-17-31 Lychnis Flos-Jovis Desr. Coste I 183, Bon 45 B.M.f.C.P. 267. Fl. From Engadine. Fls ¾-1 in diam.

7-19-31 Leontopodium alpinum Cass. Coste II 323, S&K I 674 B.M.f.C.P. 785 = Gnaphalium Leontopodium Scop. Bon 172. Bot by Jean Corbett at Great St. Bernard Pass. Fl rather withered. Receptacle deeply honeycombed. Pappus thickened toward top & deeply & broadly barbed. Impossible (a.f.s.) to ascertain that hairs are united in ring at base (Bon & B.M.f.C.P.) Corolla yellow & shorter than pappus which is about 3 mm long.

7-18-31 Reseda lutea L. (see 6-10-31) Fl & unripe fr. R.R. station Territet. Pods now 1 cm long & often open at end tho seeds not yet black.

7-18-31 Parietaria officinalis L. Coste III 247, Bon 284 B&H 414, Fl. Glion. St 2 ft high, erect with slender branches to 6 in long from lower axils; simple towards top. Lvs to 5½ inches, equally long acuminate at both ends. Petioles to 1½ in. Bracts seem not decurrent. Hence ~~[illegible]~~ this is P. erecta M.&K. Coste III 247, Bon ~~[illegible]~~ 284 = P. officinalis L. ssp

erecta. Beguinot S&K II 85.

7-18-31 Echium vulgare L. Coste II 594, Bon 229, B&H 320, G 688 BM J.C.P. 626 Fl R.R. Station Territet.

7-19-31 Bupleurum falcatum L. Coste II 203, Bon 192 B&H 195 Early fl. Rd bet V-M & Glion. St. 60 cm high. Lower lvs as ill (Coste and B&H) to 16 mm wide. Upper lvs narrower until uppermost are 3 mm wide, with nerve very near edge & merging into the somewhat cartilaginous margin. Bracts of involucel 2.7 mm long × 1 mm wide at top (slightly narrower at base) & narrowed to fine point at apex.

7-19-31 Allium oleraceum L. (See 6-26-31) Fl Glion Pedicels not greatly unequal, the longest 3 cm.

7-19-31 } Amaranthus retroflexus L. Coste III 172, Bon 265 G 371, S&K I 221 Early fl. Rd bet Glion & Café des Narcisses Distinguished from A. hybridus L. by desc (S&K) perianth of fls. truncate while A. hybridus has them pointed (See 8-20-31

7-19-31 ?? Circium tuberosum All. Coste II 377 SUK I-407 [704] = C. bulbosum DC Bon 196, = Carduus tuberosus L. ~~B+H 263~~. Fl. Roadside Café des Narcisses. Seems to agree with nothing in manuals. St 6-18 in high pubescent. Heads solitary or on short peduncles or grouped, each head subtended by several lvs somewhat like those on st. reaching to top of invol or beyond but not at all hiding fl-head. Head 3-4 cm high x 4 cm broad, yellowish white with stigmas same color or purplish. Bracts of invol appressed quite glabrous except slight hairiness on edges, not at all viscous & with no thickening toward tips as in C. arvense (7-16-31) i.e. bracts very like C. acaule (7-16-31) except that they come more nearly being ribbed down center and spiney tip is slightly more & slightly recurved. Lvs green both sides, glabrous above & almost so beneath. St. lvs sessile & somewhat clasping, not narrowed at base nor auricled. Basal lvs with petioles slightly winged & spiney. Lvs cut & spiney ciliate not unlike C. arvense.
[Seen later bet Sonchaux & Chamtabaud; west side Col de Jaman (See 8-31-31

7-19-31 Urtica dioica L. Coste III 249, Bon 284, B & H 419 G 348 ♂ fl. Glion. St. reds above, pubescent with white hairs (esp above) and freely covered with stinging bristles 2+ mm long

the lower part is considerably thicker and prob. is articulated to the upper long fine point. Petioles almost or quite ½ as long as ½ width of lf. (Gray not) Lf. pub. both sides in addition to stinging bristles like those on st. but not "downy" (G), ovate, slightly cordate, acuminate. Teeth about 20 (never more in those counted) on each side, those at base very small, those toward apex large with upper edge almost perpendicular to mid-rib; terminal tooth long & narrow. (Cf. with desc. U. gracilis at G 348) [9-8-34 Fr. Villeneuve. Petioles usually slightly longer than ½ leaf-breadth. Note lvs def. tho sometimes not deeply cordate.

7-19-31 Sisymbrium officinale L. Coste I 92, Bon. 24 BVH 35, G 429 Fl & unripe fr. Glion.

7-19-31 Achillea Millefolium L. Coste II 354, Bon. 169, BVH 249 G 845, BM of CP 757 Fl. Glion. Bracts mostly pale with 2 green nerves close together down back. Disk corollas of same whitish (faintly tinged pink) color as rays. Upper surface of lvs pitted. Edges of bracts pale.

7-19-31 Heracleum Sphondylium L. Coste II 183, Bon. 128, BVH 203, G 621 = H. — L. ssp. eusphondylium Brq. S & K I. 502 Fl & young fr. Glion. Involucre of none or 1-serial

7-19-31
several short, almost filiform bracts. Involucel similar

7-19-31 Tagetes patula L. BMJCP 778 Fl. Cult Glion
Calyx not gland-dotted. Lobes of disk corolla very hairy inside. Most of hairs same yellow as corolla but those at tip same red as markings on rays. Scales of pappus ciliate cut on blunt tip or whole length of awn (when awned)

7-19-31 Malva silvestris L. Coste I 236, Bon. 55, B&H 96 G 568, BMJCP. 484 (See 6-24-31) Fl & incipient fr. Glion edge of woods at Planesoud. Cf with M. rotundifolia L of 7-22-31. Staminal tube & filaments rosy purple. Anthers & stigmas dark purple. Pollen white. Carpels begining to show wrinkles on back. Axis about 2.5 mm diam & conique at top. Petals slightly pubescent inside towards base and claw bearded as desc 6-24-31. Hairs on st. sometimes def. stary. Lvs (at least upper ones def. 3-lobed (middle lobe longest) with 2 ~~more~~ usually less def towards base.

7-20-31 Melampyrum cristatum L. Coste III 58, Bon. 240, B&H 354 Fl & young fr. weed in Dr. Renold's yard. Dif. from desc (B&H) in that only purple in flower on anthers. Bracts now green, yellowish at base, sometimes faintly bronzed.

7-20-31 Melilotus alba Desr. Coste I 334, B&H 112, G 510, BM&CP 404 = M. albus Desr S&K I 398, = M. alba Lam Bon 76 Fl & unripe fr. Glion. Fl white, 4mm sweet scented (BM&CP "honey-sweet" Coste & Bon "inodorous") Oldest pods 4 mm long. Stipules setaceous, 8mm long.

7-20-31 Vicia dumetorum L (see 6-26-31) Fl & advanced fr, Glion Largest pod 5 x 1 Cm Hilum almost 2/3 of seed.

7-20-31 Corylus Avellana L (see 4-25-31) Unripe fr. Glion Nut exposed

7-20-31 Achillea Ptarmica L. Coste II 351 Bon 169, B&H 249 G 845, BM&CP 757 S&K I 682 Fl Glion Disk corollas whitish Rays strongly 3-nerved, 3-dentate. Heads to 15 mm diam.
[Seen later in places where it obviously was not an escape]
[7-18-34 Fl Villeneuve. Scales hairy at tip (S&K I]

7-20-31 Daucus Carota L. Coste II 160, Bon 124, B&H 208, G 623, S&K I 504. Fl & young fr. Glion. (S&K II 266 gives as only other Daucus: D. maximus Desf adventitive.)

7-20-31 Silene nutans L. (see 5-24-31) Fr. Glion Pods to 9mm high, the 6 very small teeth erect. Infl. branches stiffly erect, not at all nodding.

7-21-31 Sarracenia purpurea L. G 439, SvK II 144 Fl "Col. near Les Pleiades". Brought by Jeanne (Chambermaid)

7-21-31 ? Eriophorum Scheuchzeri Hoppe Coste III 467, Bon 325, SvK I 93. Fl. "From Dent du Midi" Brought by Jeanne. Only culm & head col (no root, sheaths, or lvs) but prob this because culm is stout (2.5 mm diam) and not at all 3-angled at top and achenes with def. mucron of .3-.4 mm. (Note SvK make ~~do~~ no distinction bet. fr of this & of E. vaginatum L.) St. hollow. Head now 23 mm high

7-21-31 ? Arnica montana L. (see 7-11-31) Fl "From Dent du Midi" Brought by Jeanne. 2 small opp bracts on st but no root or lvs collected

7-21-31 Lavandula Spica L. BM of C.P. 641, Bon 247 = L. vera DC. Coste III 78 Fl no lvs. In packet sent by Mrs. Renold from Col ~~Galibier~~ 2600 M. Galibier

7-21-31 ? Nigritella rubra Richter SvK I 166 Fl-ing st with all lvs (no root) Sent by Mrs. Renold

from Col ~~Salibier~~ Galibier. Tuft to 2.5×1.5cm & in all? several specimens cylindrical rather than spherical. Corolla a brighter red than remembered for N. nigra. Bracts either green or tinged reddish at tip. Lateral inner perianth seg. more than ½ but not as wide as outer. Lips not 3-cornered.

7-21-31 Dianthus neglectus Lois. Coste I 193, Bon. 48 Fl. (whole plant) Sent by Mrs. Renold from Col ~~Salibier~~ Galibier. Plant tufted, 1½ in high with long taproot. (Other spec. I at only 4½ in high). Lvs rough on edges. The least withered fl. has petals rose inside with short scattered pubescence and few longer hairs at throat, claws greenish, petals outside greenish-yellowish.

7-21-31 Campanula barbata L. Coste II 496, Bon. 198. Fl. (whole plant) Sent by Mrs. Renold from Col ~~Salibier~~ Galibier

7-21-31 Campanula thyrsoidea L. (see 6-30-31) Fl. (whole plant) Sent by Mrs. Renold from Col ~~Salibier~~ Galibier. Plant 6½ in i.e. much shorter & less robust than those seen frequently Jaman & Rochers de Naye.

7-21-31 Phyteuma orbiculare L. (see 6-5-31) Fl. withered (whole plant except root) Sent by Mrs Renold from Col ~~Salibier~~ Galibier

7-21-31 Sempervivum arachnoideum L. Coste II 119, Bon. 112, BM of CP 322 Fl (whole plant) Sent by Mrs. Renold from Col ~~Galibier~~ Galibier. Whole plant gland-pub. esp upper part of st. & calyx.

7-21-31 Polygonum viviparum L. (see 5-29-31) Fl. Sent by Mrs. Renold from Col ~~Galibier~~ Galibier

7-22-31 Cirsium eriophorum Scop. Coste II 372, Bon. 175 = Carduus eriophorus L. B&H 262. Bud Chamossalaz on slope of Jaman. Hairs on upper side of lvs very stiff but hardly spiney. Lvs cuts so that the winged mid-rib is about same width as the almost entire segments which are abruptly spine tipped. Spines on lower segs. & dentate auricles very stiff & wounding. Heads now (with no fls open) cushion-like with the spreading purple tips of bracts imbedded in webby hairs

7-22-31 Malva rotundifolia L. Coste I 297, Bon. 53, B&H 89, G 568 which surely = M. neglecta Wallr. S&K I 449 Fl & unripe fr. Chamossalaz. Petals white veined lavender, 13x7 mm, glabrous except at very base and claw ciliate at base but less densely & silkily than M. sylvestris (7-19-31) Lxis of fr flat, 4 mm diam. Staminal tube, filaments & anthers white, stigmas

pale lavender Carpels 14. Hairs on st. not stellate;
lvs with lobes all equal not often approaching shape
of maple lf. as in M. silvestris.

7-22-31[1] Phyteuma betonicaefolium Vill Coste II 490,
Bonn 197 Ft. Chamossalaz above chalet.
(a) 22 in high, st glabrous & sharply ridged (ridges lighter-colored (20x) & thin). Petioles of lower lvs 4 in long, their very narrow wings sparsely provided with linear teeth. Blades glabrous, lanceolate to 10 x 4 cm, elongate above the heart shaped base, irreg dentate with sharp, white tipped teeth, which on lower part are spreading with rounded sinuses. Infl terminal with 1 very small almost sessile lateral head 2 in below. Head (lower ⅓ withered) 5 cm high, dark blue, stigmas 3, the broadened bases of filaments ciliate & pubescent inside. Bracts under head small, narrowly lanceolate, entire, shorter than fls & inconspicuous. 1 or more st from root. no evidence as to whether
(b) Like (a) but lvs rather narrower. Head in bud (lower fls colored but not opened) 2.3 cm long.
(c) St 25 in. Like (a) except that lvs are narrower at base, (not more than 2.3 cm), obliquely truncate at base, sparingly pubescent, almost regularly crenate & petioles almost wholly lacking tooth-like appendages. Corolla slightly hairy inside.
(d)

7-22-31
(2) 3 sts from 1 root. Like (a) ex cept that the smaller lower lvs (7.5 x 3 cm) are reg. crenate with upward curving teeth (white tipped) and lvs v petioles with pubescence visible to eye. Fl heads (about ½ opened) 2.2 - 3 cm [8-27-33 withered fl. Jaman. Only other species to consider acc. to S v K seems to be P. nigrum which from locus seems unlikely]

7-22-31 Campanula barbata L (see 7-21-31) Rochers de Naye v Chamossaire. Calyx dark at base [7-26-34 Fl R de N. Terminal fl. opens first]

7-22-31 Adenostyles alpina Bluff v Fingerh. Coste II 285 Bon 160 Fl Path Rochers de Naye-Jaman. Fl. Cfd with A. albifrons Rchb. Invol bracts not darkened v pub at tip as in A. albifrons.

7-22-31 Valeriana montana L. Coste II 264, Bon 145 Fl. Rochers de Naye so. side. Plants col. with elongated underground st. with buds for young shoots just beginning. Lvs 3 pair, the lowest now withered, the others ovate almost entire, middle pair petioled, upper pair almost or quite sessile. Sts to 10 in, almost glabrous. Fls all seem perfect. (Cfd with V. officinalis L. v V. tripteris L.

7-22-31 Habenaria viridis Br. (see 6-12-31) Fl. Rochers de Naye.

7-22-31 Ranunculus lanuginosus L. (see 5-23-31)
Fl v advanced fr. Path R. de N. – Jaman.

7-22-31 Gentiana nivalis L. Coste II 562, Bon 215; B&H 313 Fl. Rochers de Naye. St 4-10 cm single angled & often reddish. Roots very simple & like annual. St delicate & & fld, or a little above base with 1-3 add fls (1 in each of upper axils; or (1 case) 7 stems from root, 1 of which was branched very like ill (Coste, Bon & B&H) Fls pediceled (9 mm or less) 12-23 mm overall. Calyx somewhat shorter than corolla tube & cut rather more than ½ into linear lobes. Corolla lobes about 4 mm long, bright blue, with notched fold in sinus (B&H says "yes"; Coste seems to say "no") Lvs oval the lower ones in rosette & obtuse, st ones more pointed. 1 nerve more or less obscure beneath. St lvs several pairs. Cfd with remains of G. verna L.
[7-26-34 Fl. R. de N. Frequent on eastern ridge and one spec found near Alpine Garden]

7-22-31 Oxytropis montana DC. (see 7-10-31) Rochers de Naye. Fl & advanced fr. Seems same as 7-10-31. Largest fr 30 x 8 mm; stipe def longer than calyx. Plants standing to 6 in overall.

7-22-31 Phaca frigida L. Coste I 374, Bon 84, S&K I 410
Fl v advanced fr. Rochers de Naye and on path to Jaman.

7-22-31. Jaman (Astragalus considered but not poss.) 7 in. high. Fls 14 mm overall. Lfts usually 11, about 25 X 10 mm. Stipules free, look like another pair of smaller lfts. Fr pendent, slender stipe longer than calyx. Largest pod noso 23 X 7 X 2 mm, pub. with short dark not appressed hairs, dorsal & ventral edges of valves almost touch but are not connected by partition. Pollen orange. Pod flattened & curved upward at tip.

7-22-31 Hedysarum obscurum L. Coste I 412, Bon 91 = H. Hedysaroides Schinz & Thellung S&K I 414. Fl & advanced fr. Rochers de Naye. Fls 2 cm long bright purple. Lfts 15-23 oblong (slightly wider at base) the parallel lateral veins showing plainly when held to light. Stipules thin & membranaceous, long, united below.

7-22-31† Kernera saxatilis Reich. Coste I 120, Bon 30 S&K I 289 Unripe fr. Rochers de Naye ~~Jaman Caux~~. Surely this if in Coste, exactly like ill. Plant 20 cm high of 4 very slender stems, simple or 2-branched at top. Basal lvs many in loose rosette 10X4 mm on slender petiole to 20 mm. Blades entire or obscurely 1-2 toothed, appressed pub. St lvs sessile. Pedicels 1 cm or less. Pods spherical about 2.5 mm diam. Valves slightly roughened, glabrous (a.t.S.) showing neither the 1 nerve nor reticulate veins. Seeds 4-6 in each

[seen frequently later on zig-zag path below ...]

cell, angular (because closely packed) no sign of wing at top. Valves hard.

7-22-31 Aspidium Oreopteris Sw. B+H 582 = Polystichum —— DC. Coste III 687, Bon 378 = = Dryopteris —— Maxon SvK I 5. Sp. Pl. in woods east of Chamossalaz. Frond exactly like ill (B+H). The tiny glandular globules yellow. Edges of ultimate segments slightly crenate, the effect heightened by their curling slightly backward; edges also papillate (20x). Sori very tiny & near edge, indusium to be seen only on youngest. Odor not strong but rather resinous. Frond light green, esp. the rachis. Fronds veiny on upper surface.
Later cfd with A. Felix-mas Sw.

7-22-31 Blechnum Spicant Roth Coste III 696, Bon 381, B+H 588 Sterile & fertile fronds. Edge of woods east of Chamossalaz.

7-22-31 Galeopsis Tetrahit L. Coste III 112, Bon 252 B+H 380, G 699, SvK I 560 Fl. Chamossalaz at some distance from hut. Corolla 16 mm long, whitish with yellow spot on lip (in front of the upward projecting teeth) blotchily outlined & somewhat nerved with purple

7-22-31 purple and vague purplish splotch (tinged yellowish) on each of lateral lobes of lips. Middle lobe of lip square, slightly crenulate but not "bifide" or "anagerandet" (G. bifida Boenn) Lvs with 6-8 large teeth on each side. Note calyx teeth purplish at tip and sparingly provided with dark glands on some of the hairs. St swollen at nodes, hairs almost stinging (Found later at Lion Corolla purple with yellow spot as desc.)

7-22-31 Gypsophila repens L. (See 7-5-31) Fl Naye-Jaman. Very like ill (Coste). Upright sts to 4 in! Infl has reddish tinge on sts, & calyx. Petals sometimes faintly pinkish outside. Ovary seems 4-divided on outside (suggesting 4-valved capsule). Plant of 7-5-31 not now well remembered to be sure it was same as this.

7-22-31? Athamanta cretensis L. (See 6-12-31) Fl & advanced fr. Rochers de Naye. Prob. this since only others of family with pub. fr would be the (acc. to Bon 118) the Seseli (SvK I 492) none of which agree as well as this. Oldest fr (a.t.s.) 5×3 mm, flattened laterally (not dorsally as ill Coste), thickly pub. with straight white spreading (not sty, Bon) hairs. Lvs green and glabrous to eye but (2×) more or less pub. The very narrow segs. tipped with what SvK prob means by cartilagenous point. Stigmas as erect

but not as relatively long as ill (Coste)
[7-5-34 Fl & young fr R. de N. stylopodium cone-shaped with undulate edge (S v K) Fl. stems naked from well below middle] [Slight spicy odor]

7-22-31 Linum alpinum L. (See 6-12-31) Fl & advanced fr. Naye-Jaman ~~see~~ B v K I 430 & 431.

7-22-31 Gentiana bavarica L. (See 7-10-31) Fl Rochers de Naye. Exactly like ill (Coste) Corolla tube 20 mm, Calyx tube 10 mm + teeth 5 mm. Calyx tinged bluish. Cfd with G. verna L & G nivalis L.

7-22-31 Alsine verna Bartl (See 6-30-31) Fl. Rochers de Naye.

7-22-31 Arenaria ciliata L. Coste I 210, Bon 50, B v H 72 Fl. Rochers de Naye. General effect very like ill (Coste) Lvs obovate to 8×3 mm or usually smaller, broad at apex but abruptly pointed, glabrous except for ciliations at least at base. Nerves obscure but (when cut) seem to be several (part. showing when dry) Lvs shorter than internodes and with tufts of lvs in axils (ill Coste) St puberulent with short downward curved hairs. Sepals glabrous but sometimes ciliate at base, 3 nerves showing inside but often vague.

7-22-31 obscured outside. Petals white, entire about 5×3.5 mm, slightly exceeding sepals, hardly clawed. Anthers white. [7-5-34 Rks N. Fl. Some spec in early fl have internodes shorter than lvs and pedicels not longer than calyx. 7-24-34 Fl R de N. Fls on same plant have 2-3-4 styles. White dots on dried lvs (SVK) plain (20X)]

7-22-31 Cirsium spinosissimum Scop. Coste #375, Bon 175, SVKF 706. Fl. Rochers de Naye common at upper end of lower tunnel. Ident. chiefly by the invol. of whitish deeply pinnatifid lvs around & exceeding the sessile aglomerate heads with corollas whitish. Ill (Coste) not very helpful as lvs much more deeply pinnatifid. Styles obviously pub. Invol. bracts narrow & the slender yellowish tips hardly (at least a.t.s.) pricking.

7-22-31 ! Peucedanum Ostruthium Koch Coste #1974 BvH 202, SVKI 500 = Imperatoria —— L. Bon 127 S 621 Fl. Path Naye-Jaman near its lowest point; root not col. St 3 ft., glabrous, striate, 1 cm diam hollow but thick walled & not compressible, when cut has agreeable odor suggesting Angelica. Lvs rather circular in outline, 1 ft or less across of 3 stalked divisions, each of these divisions of 3 (or 2) lfts which are dentate & usually more or less lobed (see ill BvH), the sharp teeth whitish & outlined with red on upper surface. Lfts glabrous above and roughish with hairs on nerves beneath. Uppermost lvs small and inflate sheath. Ray to 50, in-

[8-27-33 Fl & adv. fr. Jaman. Fr not yet as nearly orbicular as ill Bon & Coste nor as def notched as ill Coste]

equal. Raylets also unequal. Fls very small, white. Bracts of involucre 0, bracts of involucel few, filiform inconspicuous. Lfts to 5 x 3 in, generally obovate. Cfd with Angelica silvestris (7-24-31)

7-22-31 Gentiana lutea L. (see 5-29 & 6-12-31) Fl & young fr. Below Jaman.

7-22-31 Gentiana purpurea L (see 6-30-31) Fl. below Jaman. Like 6-30-31 except corolla lighter (mauve not at all yellow) & less thickly dotted.

7-22-31 Gentiana

Fl. Taken from Jaman shortly above Chamosalaz. Poss. a hybrid bet. G. lutea & G. purpurea both growing in vicinity. More than 1 spec seen. St. & habit like G. lutea: St 3 ft high, thick, Lvs verticillate in 3's & very like G. l. (but less glaucous & the lower ones with petioles ½ the length of blade), anthers free. Fls numerous in each whorl (13-20)

Fls more like G. p. in that they are campanulate, predominately purplish & dotted (Corolla 3 cm long cut ½ of length while G. p. has corolla 4 cm long cut ¼ length. (Corolla tube yellowish inside) Lobes 5 while G. p. has 6 or 7. Fls almost sessile as in G. p. never with the long pedicels or def [illegible]

7-22-31 pedunculea found in G. l-. Calyx cut to base with no more def. teeth than G. p-l.
See K&B II 295 for desc. of this hybrid.

7-22-31 ? Gnaphalium silvaticum L. Coste 321, Bon 172, B&H 240, G 823 Fl. Below Jaman. Dif to decide whether this or G. norvegicum Gunn. St 26 cm. Lvs green above with traces of cottony pubescence (20X) Lvs on shoots (at base) 5 x 1 cm, attenuate at base not def. petioled, obscurely 3-nerved, oblanceolate. Lvs near base of st similar but only 8 mm wide, only 1 nerve evident, Lvs midway about same length but 5 mm wide Lowest lf subtending fls. 4 cm x 3.5 mm. (G. says broadest lf base 5 mm wide) Infl 7 cm high, spaced below, denser at top. Bracts of invol. very dark at or near tips, yellowish-greenish at base.

7-22-31 Pimpinella magna L. (See 6-6-31) Fl & young fr. Rochers de Naye. Seems only poss with lvs 1-pinnate (see Bon Coste 120). Fls bright pink. Odor faintly suggesting celery.

7-22-31 ? Meum Mutellina Gaertn Coste II 186, Bon 138 = Ligusticum — Cr S&K I 497 Fl & young fr. Rochers de Naye (Perhaps this was the pink Umbellifer seen at Jaman 6-12-31 & later. Not recorded in notes)

agrees with desc. of genus (Coste) & lf segs and involucel bracts not narrow enough for M. athamanticum Jacq. (See also BuH. 200) Fls deep pink. Lvs oval in outline ("obovale" Coste) the lowest internode of rachis often obviously longer than the others [8-14-33 Fr. Rde N. Fr. 5 mm long Ident. seems sure]

7-22-31 Allium

Fl. Rochers de Naye. Acc to Coste III 341 would be A. fallax Roem & S. = A. serotinum Schl. Root (1 bulb only on plant as col.) exactly like ill. St 18 cm high, at base rounded on one side, flattish on the other, at top def. angular. Lvs basal, shorter than st, 3 mm wide, not hollow, rounded & nerved but not keeled beneath. Fls purple (some light, some dark. Perianth bell shaped, 6 mm long (outer segments somewhat shorter), obtuse & often not quite entire at apex but never def. pointed. Pedicels = perianth. Styles & stamens exserted. Anthers dull purplish never yellow.
Note this dif from desc Coste only in length of pedicels but dif from A. fallax Don Bon. 299 in that anthers are not yellow & per. seg. not acute.
None of these names in S&K I (tho Bon says A. fallax Don found in Suisse). But see A. senescens L = A. montanum Schmidt S&K I 140.
(Others in S&K not in Coste are A. suaveolens Jacq and A. paradoxum Don neither of which seem possible)
[Later found, pedicels 11 mm, perianth 6 mm.] [7-25-33 Anthers yellow when fl opens.

7-22-31. Crinthe glabra Miller (see 5-29-31) Fr. & fl. at very top of st. Naye-Jaman-Caux (Found just the same 7-24-31 near Libraire) Prob this tho' corolla teeth not revolute. Corolla 10 mm long of which 2 mm is triangular teeth; blunt at apex (which rules out C. minor L. Coste II 279 Bon. 220 S & K II 281) Lvs (20x) show same whitish tubercular scales as (5-29-31) On dead dried lvs the white dots visible to eye.

7-22-31 Arabis

Eurifie fr. Naye-Jaman-Caux. (prob in upper parts) Strong vertical root with remains of dead sts, 2 fl-stems & several rosettes. Basal (& rosette) lvs obovate to 20 x 9 mm (small), entire, rounded at apex, narrowed to very short petiole, almost or quite glabrous beneath, above hirsute with stiff pale 2-3 forked hairs with tubercular base. Lf surface glabrous bet. these hairs & no hairs simple. St. 6 in hirsute at base with forked hairs like those on lvs with simple hairs of similar texture intermixed, quite glabrous from below infl. upwards. St. lvs few, small, erect against st: to 13 x 5 mm, lanceolate or oblong, upper surface almost glabrous, lower surface hirsute with forked hairs, entire, blunt, sessile, rounded at base, not at all auricled. Infl 3-3½ in long about 16-fruited. Pods (now prob full size) 15-17 mm x 1.5 mm, erect; pedicels 4 mm ascending. Pods glat-

rous, nerve on valve plain (20X), ~~pod~~ pod slightly purplish, stiff, compressed. Seeds in 1 row in each cell, no def. signs of being winged. A few of the pods slightly falcate (may be accidental)
Another spec. has ^some lvs obscurely dentate & one of basal lvs sessile 22 X 10 mm, seeds (slightly older) now green with edges brownish not at all winged.
All evidence points to A. corymbiflora Vest SUKI 314 = A. arcuata Shuttle Coste I 102 (all good except that nothing corresponds to middle figure with large lf) [see 7-25-33 in which lfs on short (almost rosette) young shoot at base of plant are exactly like this middle figure in Coste]

7-22-31 Campanula pusilla Haenk Coste II 502, Bon 199 = C. cochleariifolia Lam SUKI 656 Fl Rocheroche Naye - Jaman. (Perhaps this was the C. seen from train covering walls ± near Paccot.) 6 cm high, general effect glabrous & shining but petioles of basal ~~lvs~~ & lower lvs ciliate near base & st with hairs below. Lvs thickish, toothed. Basal lvs ovate to 7 mm, shallowly cordate. St. lvs mostly below middle of st. like ill. (Coste). Calyx tube 2.5 mm, Calyx teeth 2.5 mm, Corolla 1 cm. Position of buds not observed.

7-22-31 Polystichum Lonchitis Roth (see 6-12-31) S/o Naye - Jaman.

7-22-31 Luzula multiflora Lejeune Coste III 458 B&H 492 prob = L. campestris Lam & DC ssp multiflora Buchenau SvK I 132 and L. campestris DC var multiflora Celak G 279 Fr. Rochers de Naye. To 27 cm high. Branches of infl thickish, stiffly erect to 2 cm or so short ~~head~~ infl looks spherical, shorter than invol bract. Per. 3 mm, dark brown except on pale edges, segs fine tipped, almost longer than the broad capsule. Seeds 2 mm long.

7-22-31 Thesium alpinum L. Coste III. 217. Bon 276 SvK I 205 Unripe fr. Rochers de Naye.

7-22-31 Veronica aphylla L. (See 6-12-31) Fr. unripe but capsule as desc. (Coste)

7-24-31 Linaria vulgaris Mill Coste II 20, B&H 339, SvK I 586 = L. —— Moench Bon 233 = L —— Hill G 919 Fl. R'd eastward from Caux. Corolla inc spur 25 mm Plant looks like one common in U.S.A. Plant quite glabrous (Coste, Bon, B&H, SvK I. all say more or less gland-pubt in infl. G says glabrous) Prob this is var. glaberrima. Schur SvK II 297. Fl seems too large & lvs not thick enough for L. italica Trev Coste II 20, SvK I 586. not quoted elsewhere

Lvs. not def. 3-nerved enough to be var. latifolia Bab. Br. FH 340. (L. vulgaris Mill)

7-24-31 Aconitum Napellus L. (See 6-30-31) Fl. Libson. Helmet exactly as ill. (Coste). St. paniculate with erect branches much shorter than terminal raceme. Filaments hairy.

7-24-31 Epilobium rosmarinifolium ~~Hae~~ Haencke (See 7-4-31) Fl. Caux toward Libson. Style somewhat shorter than stamens. Petals 13 mm long.

7-24-31 Cirsium lanceolatum Hill H 857, SVK I 703 = C. — Scop. Coste II 371, Bon 175 = Carduus lanceolatus L. BVH 261 Fl. Libson.

7-24-31 Cirsium eriophorum Scop. (See 7-22-31) Fl. Libson.

7-24-31 Cynoglossum officinale L. (See 6-14-31) Fr. Spines more closely set on the border (which is not greatly distinguished otherwise) than on face. All spines with tiny cap of downward pointing teeth (hooks). No tubercles betw. spines. Capsule 7×6 mm.

7-24-31 Salvia glutinosa L. Coste III 100, Bon. 250 Fl Glion. Corolla tube tho' pub. inside above has no ring of hairs near base (Coste says "yes", Bon says "no"). In add. to the 2 anther-bearing stamens (lower tips broad & yellowish) there are 2 rudimentary stamens with flat arrow-shaped expansions at upper end. L vs 7×7 in.

7-24-31 Angelica silvestris L. Coste II 171, Bon. 126, S&K 201 G622. Bnd Caux. Teeth of lvs tipped white & outlined red as in Peucedanum Ostruthium 7-22-31. One umbel had 54 rays. Odor much less strong than A. atropurpurea L. St. compressible. [9-8-34 Fl. dull but definite pink. Villeneuve north side of jetty.]

7-24-31 Stellaria nemorum L. (See 6-14-31) Fr. Liboson a short distance on way to Caux. Capsule 9 mm hence not once again as long as sepals (Coste), thin, splitting deeply into 6 valves.

7-24-31 Paris quadrifolia L. (See 5-12-31) Fr. Caux-Val-Mont. Seeds 19 (Coste says 8).

7-26-31 Senecio Fuchsii Gmel. Coste II 306, S&K I 693 S&K II 345, evidently inc in S. sarracenicus L.

Bon 164, B&H 256 Fl. Glion path to Chambaband, in shade. St 3 ft. puberulent in middle, lfy base to top (lower lvs now withered & falling) Lvs to 7½ x2 in (upper ones smaller) lanceolate, acuminate, all tapered into short petiole, green & glabrous above, grayer beneath but hairs few except on edges; teeth with firm tip but not def. cartilaginous. Invol. about 7x2.5 mm. Involucel of 3-4 very narrow bracts 3-4 mm long, spreading & distinct. Rays usually 3. Achenes glabrous.

9-26-31 ! Inula Conyza DC. Coste II 314, Bon 170, B&H 243 = I. squarrosa Bernh S&K I 678. Early fl. Glion path Chambaband, Chillon. Naked receptacle & long-tailed anthers, ligules so small as to appear none (See Pulicaria vulgaris Gaertn Coste II 316 S&K I 678 = Inula Pulicaria L. Bon 170, B&H 243 for only other poss.) St 2 ft. softly pub with long, loose hairs (almost wooly. Lvs as ill & desc (Coste). Heads to 12x7 mm. Invol. bracts light with green midvein & conspicuous green squarrose tips (tips papillate 20x or ? glandular inside) ciliate. Interior bracts of invol purplish & erect. Styles yellow turning dark later (B&H says "purple" which these are not) giving fl. heads a def. purple tinge. Very young achenes with a few stiff flat hairs near top but the denticulate pappus seems def of hairs in one row & without crown.
(See 9-21-31)

7-26-31 Anthericum ramosum L. (see 6-12 & 27-31) Fr. Capsule 8mm high. Seeds black, roughened & dull, angled.

7-26-31 Arum maculatum L. (see 5-2-31) Fr. ^Villon^ Seed 1 in each berry

7-26-31 ?Calamintha ascendens Jord. (See 7-4-31) ^Fl^ Chillon woods. Seems same as 7-4-31 [Or ?C. officinalis Moench See 8-31-33]

7-26-31 Lathyrus pratensis L (see 6-4-31) Fl & fr. above Chillon. Oblique lines on pod from upper suture forward to lower suture. Seeds smooth shining, mottled purple & green. Stalk attached near to proximal end of hilum

7-29-31 Carlina acaulis L. Coste II 366, Bon. 182, S & K I Bud Gresalley. St 8 in, purple glabrous. L's glabrous, pinnatified almost to mid-rib. Outer invol bracts like lvs (but smaller) longer than head; middle bracts "tres ramifiées" (Bon); inner bracts linear, to 4mm wide, inside bright white, outside bright white at tip purplish below. [~~7-29~~ 8-27-33 St. & lvs somewhat webby!

7-29-31 Senecio Fuchsii Gmel. (see 7-26-31) Fl Gresalley in sun. Stouter, stem more def ridged than (7-26-31) lvs sessile but not auricled, and in shape & denticulation like (7-26-31), glabrous, darker green & tips of teeth might be called callous (white to eye). Invol glabrous, rays often 5. Invol 6x3 mm. Involucel as (7-26-31)

7-29-31 Actaea spicata L. (See 5-22-31) Fr Glion.

7-29-31 ? Brassica Rapa L. S&K I 296. Coste I 77, Bon 21 B&H 39. G 428, BM of CP 305 Fl & fr. Caux-Gresalley. - Café des Narcisses. Ident thru S&K. Lower lvs all fallen, upper lvs glabrous (post glaucous) clasping with rounded auricles. Fls spreading at ends of inff and overtopping the buds. Sepals erect but not appressed. Petals very yellow not pale nor dark. Fl 1 cm diam. Petal 8 mm overall of which no more than 3 mm is claw. Pods 4-5.5 cm overall of which 1.5 cm is beak. Seeds dark brown, dull, slightly but def. (20x) reticulate-pitted

7-29-31 Alnus viridis Chaix (see 5-12-31) Fr almost ripe & next yrs ♂ catkins (very sticky) Gresalley.

7-29-31 Arctium tomentosum Miller SvKI 700 (See BOH 258) = Lappa tomentosa Lamk. Coste II 404. Bud. Merealley. Heads in corymb, peduncles about 1 in. Invol spherical 2.5 cm diam, bracts spreading or ascending (none at s. reflexed), 1 mm wide (at point where no longer appressed) tapering to fine incurved hook, ~~slightly toothed~~ or entire all connected by cobwebby hairs. Innermost bracts purple square topped or apiculate (not hooked), shorter than fls.

7-29-31 Arctium nemorosum Lej. SvKI 700, BOH 258 = Lappa nemorosa Koernicke Coste II 722. Bud. Short way up ravine at Café des Narcisses. Plant (as remembered) with spreading wand like branches. Infl. of almost sessile heads, distant, in axils of lvs or very short branches (1 in) bearing 2-3 proximate heads. Whole effect elongate & narrow & racemose. Heads spherical, 3 cm diam, quite glabrous, the lower bracts reflexed. Bracts almost 1 mm wide (at point where no longer appressed). This agrees fairly with desc SvK except no invol bracts colored red (a.t.s.) But note BOH II ill no 214 says "pastel lilacs" & char. not found in this partial, when ... ~~...~~ ~~...~~ written specimen
[See 8-13-33]

7-29-31 Campanula rotundifolia L. Coste II 501, Bon 179

BvH 286, G 767, BM of CP 743, SvK I 656. Fl, bud & unripe fr. Gressalley (but seen often at Glion)

7-31-31 Galium silvestre Poll (see 5-9-31) = G. pumilum Murray SvK I 635 Fl & unripe fr. Rochers de Naye. This is the G. common in all these upper parts & by careful ident by SvK seems surely this. St Ho 15 cm

7-31-31 Trifolium repens L. Coste I 343, Bon 78, BvH 118 G 509, BM of CP 405 Fl. Naye-Caux. Heads 2.5 cm diam. Calyx with tinge of red & a def red spot in the 4 lower sinuses; teeth with white thin border except upper edge of the 2 upper teeth.

7-31-31 Eupatorium cannabinum L. Coste II 284 Bon 160, BvH 234 Fl. Glion.

7-31-31 Sambucus racemosa L (see 5-10-31) Fr. Caux

7-31-31 Polygonum Persicaria L Coste III 206, Bon 275 BvH 399 G 364 Fl & fr. Glion Fl pink [Found later fl greenish-white]

7-31-31 Vincetoxicum officinale Moench (see 6-8-31)

7-31-31 Sedum alpestre Vill (See 6-12-31) Fl. Path Sautodoz to the fork < Jaman/Caux. [7-26-34 Prob was S. atratum Vill]

7-31-31 Saxifraga aizoides L. Coste II 138, Bon 115, B v H 173, S 446, SvK I 332. Seems only poss. v very like ill (B v H) but much smaller v less branched than remembered in Nfld. St. trailing for 6 cm (~~to~~ covered with remains of dead lvs v with tiny new shoot near lower end), then upright 3 cm. Lvs 8 x 1.5 mm, almost flat both sides, thickish, sparsely ciliate, marked with callus (or crust pores?) spot just below tip on upper side and usually with similar spot lower down on each edge. Fls 3. Sepals green. Petals bright yellow spotted orange. Bel. Naye (See 8-16-3

7-31-31 Euphrasia officinalis L. Coste III 42, Bon 238, B v H 357 includes E. Rostkoviana Hayne SvK I 605. Fl v unripe fr. Slopes bet. Naye v Caux. From 3 cm v simple to 11 cm v branched below middle. St (often reddish with short downward curved white hairs. Lvs bracts v calyx short v not densely-gland-pub. Corolla 10-12 mm, upper lip white ~~lvs~~ striped purple; lower lip ~~and~~ white with yellow spot in middle v yellow throat. Consider poss. of E. montana F.sch SvK I 605. tho' lvs not "entfernten"

7-31-31 Linaria alpina Mill (See 6-30-31), Naye Fl & unripe fr. Note pedicels 3-4 mm are shorter than calyx 5-6 mm.

7-31-31 Campanula pusilla Haenke (See 7-22-31) Cfd with C. rotundifolia L (7-29-31) St to 18 cm and general effect longer & looser than (7-22-31). St lvs def. petioled SUK I 6-56 Hanson lvs & st. as (7-22-31). Basal lvs to 12 mm. Calyx tube 3.5 mm, teeth 4 mm. Corolla to 13 mm (base to tip of lobe) Fl. bud & unripe fr. in cleft of rocks Naye-Caux But note that buds seem upright (Coste says not) Filament (above expanded base) about 2.5 mm; anther 2 mm. (C. rotundifolia has anthers def longer than upper part of filament)

7-31-31 Senecio Fuchsii Gmel (See 7-26-31) Fl. Naye Caux Seems same as 7-26-31. But note st. seems to arise from creeping rootstock & bears at base several thick pinkish shoots (Coste "non rampante.") Invol bracts 9. St lvs short petioled or almost sessile (sometimes dif to decide if tapering base is petiole) but not auriculate clasping

8-3-31 Senecio vulgaris L. Coste II 302, Bon 163, B&H 254, G 853 Fl. & fr. Glion

8-3-31 Impatiens Noli-tangere L. Coste I 265, Bon 62, B&H 99 A 560 SvK I 445. Fl & advanced fr. Glion. Corolla 3cm tip of upper petal to tip of spur and 2-3 cm across lower lip and from tip of upper petal to tip of lower lip.

8-3-31 Torilis Anthriscus Gmel Coste II 164, Bon 125 SvK I 483 = T. —— Bernh A 623 = Caucalis —— Huds B&H 307 Fl & unripe fr. Glion rd to V-M. Bracts of invol 3-5 Bristles on fr with tip simple & upward curved not enlarged or hooked. Petals white or pinkish and anthers deep wine color. St finely purple striped below. Largest number of rays in umbel 10.

8-3-31 Succisa pratensis Moench A 764, SvK I 648 = Scabiosa Succisa L. Coste II 277, Bon 148, B&H 229 Fl & young fr. Les Avants rd returning to little bridge. Corollas not "deep blue" (B&H) or "bright blue" (A) but rather a palish dingy blue. Fl-st at side of tuft of lvs. St with 3 pairs of opp lvs near base, otherwise naked except for pair of small bracts with or without buds in axils. St to 10in high, pub. with appressed, downward pointing hairs. One lobe of corolla slightly larger than others. Bristles of calyx 4-5.

8-3-31 Panicum miliaceum L. Coste III 549. Bon 352. G 104, BM/CP 108 S&KI 46 Fl. Glion just beyond R.R on road to Les Avants. Fibrous roots thick. Several thick stalks to 2½ ft. Lvs to 2,5cm wide, rough on edges. Ligule has effect of ring of stiff hairs (poss. joined at base) Branches of infl. rough. Spikelet 5mm. Green scales 3. Lowest 3.5mm, 5-nerved, ovate, embracing sharply acute, 2nd & 3rd almost equal 13-15 nerved, longer than the chartaceous fertile lemma & palea, The 3rd scale subtends a small whitish member: the sterile palea.

8-5-31 Plantago indica L. S&KI 627. = P. arenaria Waldst & Kit. Coste III 145, Bon 259 Fl & fr. Glion Path at side of Tovaux (1 plant only, not observed elsewhere) Strong tap root 2½ in long. St 3 in high, so strong that it might poss. be called "woody," and at or near its base numerous compound branches spreading horizontally to 6 in. Plant gray-green rough-pubescent but not glandular (Coste). Lvs opp. linear or slightly larger above middle, to 35 x 2 mm, entire, bearing tufts of smaller lvs & branches in their axils. Fl-heads on peduncles to 6 cm from axils of lvs at ends of branches. Heads ovate 10 x 8 mm. Lower bracts broad & hollow often with long spreading tips (much like ill P. Cynops of. Bon) not as long as ill P. arenaria (Coste), Upper bracts

8-5-31 bracts very broadly spatulate, concave inside with thickened green spot on back above and broad scarious margin (top & sides) very obtuse. Outer sepals much like bracts, inner sepals narrower, keeled: all with few hairs. Corolla (in anthesis) pale brown. (see 7-16-34)

8-5-31 Viburnum Opulus L. (see 5-29-31) Fr turning red. Caux

8-5-31 Lathyrus niger Bernh (see 6-8-31), Glion Fr unripe but prob. full size. Seeds rather rectangular, the hilum occupying 1 side (i.e. 1/3 or less of circumference) and attached to pod about middle.

8-5-31 Lathyrus silvestris L. (see 7-16-31) Caux-Glion. Fl & fr unripe but prob. full size. Pods 50 x 10 mm. Hilum attached to pod nearer one end.

8-5-31 Leontopodium alpinum L. (see 7-17-31) Fl brought by M. George (S. Kinnore). Heads sometimes mostly of bisexual fls & hence yellow or green-yellow; sometimes mostly of ♀ fls hence whiter with filiform stigmas prominent. But even the ⚥ head whitish in bud because pappus overtops buds.

17 B+H 340, G 720, S+K I 376.
8-5-31 Linaria minor Desf. Coste III 18, Bon 239, ~~G 344,~~
Fl & fr Glion Path V-M to V-M Halte. Plants 25-27 cm high (perhaps others not col. higher.) Short slender taproot with few fibrous roots suggests annual. No radical lvs. Lowest lvs opp. others all alt. Plant branched below middle; branches ample spreading, shorter than st. All green parts finely gland-hairy (ie st. lvs & calyx). Lowest lvs oval 15 x 5 mm, on petiole of 5 mm obtuse both ends, thickish. entire. midnerve only apparent. Upper lvs similar but somewhat thinner and linear 20 x 3 mm overall, without def petiole. St & branches bearing fls (from below middle) Fls solitary in axil of lf (those below with short branch also in axil of lf.) Pedicels in fr to 1 cm, shorter than lf & about twice as long as calyx. Only uppermost corollas left. These 6 mm overall of which spur is 2 mm, slightly pub, not gland, outside. Tube pale purplish, inside of upper lip almost white; lobes of lower lip still more nearly white, with 2 broad purple stripes inside throat, which stripes are well furnished below with yellow hairs. Palate seems to close throat entirely. Calyx lobes in fl 3-4 mm, not def unequal, narrow obtuse. Capsule 5 mm high, slightly shorter than calyx, opening by 2 holes at top. Seeds dark brown, rather cylindrical, 1 mm long marked longitudinally with about 9-12 sharp ridges (not wings) some of which are broken or partial (not toothed.) Like ill Coste and B+H except points as noted. For adventitive species see S+K II 297

8-5-31 Asperula galioidea M. Bieb. Coste II 256, Bon 143. H 747 surely = A. glauca Besser S&K I 630 Fl & fr. At Caux-Glion. Differs from desc. (Coste) in that the strong silvery (almost woody-looking) st. is decumbent. And the lvs on st (now mostly withered) are 7-8 in whorl, the lvs on the short branches are mostly 5 in whorl; and fls (at ends of these branches) often very few. Plant was growing in wall beside road & perhaps had been cut in haying. Lvs narrow, linear, glaucous green, nerve strong, edges strongly revolute, def. rough with upward-pointing hairs slightly in from true edge so as to be on edge of lf not counting revolute edge, fine pointed. Corolla bell-shaped; tube 1 mm, lobes 2 mm long. Bracts narrow, like smaller lvs. Dried fr wrinkled. Corolla lobes usually 4, sometimes 3. Cf with A. cynanchica L.

8-8-31 Euphorbia exigua L. Coste III 237, Bon 282, B&H 407 Fl & fr. Glion R.R. st. opp. Dragés.

8-8-31 Setaria viridis P.B. Coste III 548, Bon 352 = S. viridis Beauv H 118 = S. — Pal S&K I 47 = Panicum viride L. B&H 529 Fl. Glion Dumping RR near station.

8-8-31 Trifolium pratense L. Coste I 348, Bon 80,

BvH 116, G 509 BM&CP. 406 Fr. Ilion Cfd with T. medium. Differences aff of stipules v calyx tube evident.

8-8-31 Sempervivum tectorum L. Coste II 120, Bon 117, BvH 169, G 443, BM&CP 322, SvK I 326. Wall of ap. V-M. Fls pinkish ~~or straw ... but not studied~~. Now unripe fr, v flo lvs of rosette glabrous on faces, stiffly ciliate, obovate suddenly contracted to stiff point (not greatly narrowed below) This all seems to indicate S. tectorum a ccts SvK. But rosette lvs are reddish (not white at base) ~~Too late to ...~~ no peculiarities of stamens (SvK and BvH.) Plant col has 5 branches to infl. and none observed has as many as 10-12 branches (BM&CP. Fls 2 cm diam. Petals colored by pink striped (broken) on whitish background, glabrous inside but gland-pub on back v edges.

8-8-31 Lepidium ruderale L. Coste I 139, Bon 33, BvH 49, G 425, SvK I 283. Fr v few withered fls at tip. Lower lvs gone v upper lvs withered. Ilion, dump near RR. station. 1 ft high much bushy branched from near base. Hardly fetid but with strong "pepper-grass" odor. Pod like ill (Coste v G) 2+ mm high 1.7 mm wide on pedicel of 2+ mm. Cotyledons incumbent (G). Stamens 2, petals 0. Sts slightly puberulent.

8-8-31 Verbascum Thapsus L. Coste II 620, Bon 228 BvH 336, G 719, SvK I 583 Fl. Ilion. Cfd with V. nigrum. The 2 long filaments with only few hairs v fully 4 times as long as anthers so cannot be V. crassifolium DC or V. thapsiforme Schrader SvK.

8-8-31 Chenopodium hybridum L. Coste III 185, Bon 268, BVH 388, G 367, SUK I 216 Fl & unripe fr. Ilion R.R. near station. Panicles compound. Fl. seg. with thick green keel bordered at top with obtuse, white margins ± decurrent on sides, making a variegated look even to eye. Infl (sts & pec) slightly mealy. [not seen again until 9-25-34 at Vouvry, one specimen]

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8-8-31 Chenopodium album L. Coste III 186, Bon 269, BVH 387, G 367 SUK I 219 Fl & fr. Ilion Various specimens showing various forms from (a) 8 in widely branched with ov. & usually entire lvs (b) to 3½ ft now wandlike (tho young branches showing in axils), lvs of usually size & form, whole plant much paler than (a). Seeds in all seem those of C. album.

8-8-31 Solanum nigrum L. Coste II 614, Bon 227, BVH 330, G 713. SUK I 579 Fl & unripe fr. Ilion R.R. Filaments def. pub. on inside. Calyx 3mm, corolla 7mm.

8-8-31 Sonchus oleraceus L. (See 6-26-31) Fl & fr. Ilion
8-8-31 Sonchus asper L. (See 7-4-31) Fl & fr. Ilion
To cf fr. note styles & stigmas in both greenish as desc SUK I 725.

8-8-31 Cichorium Intybus L. Coste II 409, Bon 183

B&H 280, G 862, BHCP 754 Fl. Ilion.

8-8-31 Ononis repens L. (See 6-19-31) Fr. Ilion Seeds 3-4 in pods opened. Pods shorter than calyx which has grown larger since flowering (SUKI 395)

8-8-31 Plantago major L. Coste III 150, Bon 359, B&H 377, G 745 Unripe fr. Ilion [8-5-34 Keels of the 4 sepals give young fr. a squarish look (20x)]

8-10-31 ? Mentha rubra Huds. SUKI 575.
Fl. Ilion garden fence at V-M. pig house. Acc to SUK key Calyx with 5 equal teeth, glabrous inside. Corolla tube glabrous (no sign of hair). Fls in axillary whorls but towards top of infl so can't see if terminal tuft of lvs but certainly not a terminal head of fls. Calyx glabrous except for few hairs on teeth, tubular, 13-nerved. SUK says hybrid M [aquatica x arvensis] x spicata. Not in other manuals. St to 2 ft, sprawling, somewhat pub with downward curving hairs. Lower lvs 80x33 mm on pet. 8 mm, short toothed, upper lvs shorter (to 2 cm) and practically sessile. Fls 5 mm broad. Corolla almost white. But being not reddish & lvs not as broad as B&H Ill. II ~~Ill~~ Fig 283, lvs short pet. or almost sessile.
[9-29-34 Canx. fl. & fr. seems same as that 8-10-31]

8-10-31 Lythrum Salicaria L. Coste II 91, Bon 106, B&H 161, G 592, BHCP 531 Fl. ~~[illegible]~~ Ilion-Ledrantes Rd 1st house beyond Café des Narcisses.

8-10-31 Alnus incana Moench G 337, SVK I 198 = A. — Willd Coste # 377, = A — DC Bon 289 Unripe fr. Glion-Les Avants rd. No fl buds showing Cf. with A. viridis Chaix (7-29-31)

8-10-31 Rumex sanguineus L. (See 7-14-31) Fr. Glion. This is same plant as (7-14-31) others seen on mule path below V-M. farm. White tubercle on longest sepal conspicuous. Tubercles on other seps much smaller or lacking. Seed 2 mm long, shining. Branches slender & not much spreading but lfy sometimes to middle

8-10-31 Plantago lanceolata L. Coste III 149, Bon 360, B&H 379, G 745 Fr. Glion

8-10-31 Tamus communis L. (See 5-24-31) Fr. unripe but ripe fr has been observed recently.

8-10-31 Mentha silvestris L = M. longifolia Huds (See 8-16-31) Fl. Glion. Ovules sparsely hairy on top (SVK).

8-11-31 Digitaria sanguinalis Scop Coste III 552, Bon 352, G 96 = Panicum sanguinale L. B&H 528, SVK I 46 Fl. Glion. Near path Mont Fleuri

8-11-31 Carlina vulgaris L. Coste II 367, Bon 182, BvH 264, SvK I. 699 Fl not fully open. Glion Path lower bridge towards Mont Fleuri. Inner bracts of invol non def yellow both sides, purplish towards base outside, mostly of Ciliate, 1 mm wide

8-11-31 Datura Stramonium L. Coste II 616, Bon 227, BvH 320, G 717, SvK I 580 Fl & advanced fr. Glion. V-M. Farm.

8-11-31 Euphorbia peplus L. Coste II 237, Bon 283, BvH 407, G 549 Fl & fr. Glion.

8-11-31 Oxalis stricta L. Coste I 267, Bon 62, BvH 99, SvK I 429, also G 533 (which differs from Coste, BvH. and SvK. in saying "stipules evident.") St 1 ft & more, erect, no rooting branches, but from base elongated stolons which bear lvs (SvK) & some fl on short axillary peduncles. Lvs absolutely no sign of stipules. Petals rounded at tip (SvK) not at all notched. Sepals erect in fr. but not closely applied (Coste) Plant glabrous in effect but branches etc with some hairs; fr with spreading hairs. Fruiting pedicels upright spreading not deflexed. Pods 13-18 mm long, atrichiah. (See O. corniculata L 12-5-30 which may have been wrongly identified.
Fl & unripe fr
Glion

8-11-31 Buddleia Davidi Franch BMJCP. 599 Fl. Escape (commonly cult) in Veytaux brook east of V-M. farm. One specimen only found, that well developed, to about 7 ft (Can't tell if perhaps one of the varieties for instance var Veitchiana Rehd). The panicle studied 8 in. long.
[9-8-34 Fl Frequent on path Chillon → Villeneuve]

8-11-31 Amaranthus lividus L. S&K I 223. ~~4372~~. ~~= ?~~ in var ascendens (Loisel) Thellung (acc to S&K) hence prob given in Coste III 173 & Bon 265 as A. Blitum L. (S&K says "auct not L.") & 372 gives A. lividus L. but since this has utricle wrinkled tho' not warty may be referred to A. viridis L. 4372 (S&K says A. lividus L. = A. viridis L. in part) Fl & fr. [illegible] V-M. farm. (a) Agrees with desc S&K except no well developed terminal head. Lvs dark & reddish with greener spotted in center. Sepals narrow, oblong, blunt with dark spot at tip. Capsule indehiscent, more or less wrinkled. Lvs to 2.5 cm long. Heads about 5 mm long.
(b) Stouter, lvs to 5.5 cm long, dark green (without reddish color) Fl & fr as (a) the upper axillary & terminal heads to 2 cm.

8-11-31 Vicia Cracca L (See 6-24-31) Fl & fr (not ripe but prob full grown. Studied in light of S&K I 416. prob ssp vulgaris Gaud. Stalk of pod not def longer than calyx tube. Hilum of oldest seeds certainly $\frac{1}{3}$ to $\frac{1}{2}$ circumference.

8-11-31 Capsella Bursa-pastoris Moench Coste I 135 Bon 33, ~~BvH 47, G 436~~ = C. —— Medik BvH 47, G 436, SvK I 305 Fl v fr. Glion [8-24-34 Fl v fr. Part of the hairs on st and lvs branched v appressed (i.e. stellate) SvK I 305]

8-12-31 Trifolium agrarium L. ~~Coste~~ S.v.K. I 405, G 509 = T. aureum Poll Coste I 340, Bon 77. (BvH) Fl v young fr. Sonchaux-Chambabaud. 1½ ft, upper half much branched. Lfts equally very short stalked. Stipules attached to petiole more than half its length (G) and usually def. longer than petiole (Coste). Heads many, about 12 mm wide. Calyx pale with lighter nerve in each lobe, glabrous in effect but sometimes with few short hairs at base v a few longer hairs at tip of the 3 long lobes (not hairy on longer lobes as T. badium L. 6-30-31). Corolla, standard striate, keeled, more or less denticulate esp towards base of blade, pale brown on withering. Wings divergent. Oldest fr (prob full size) has pod 2.5 and style 1.5 mm. St. appressed pub. Cf with T. badium Schreb.

8-12-31 Malva moschata L. Coste I 286, Bon 55, BvH 90, G 568. B M of CP 484 Fl v unripe fr. Sonchaux-Chambabaud. Fls pink. Lvs with no musk odor. Rarely solitary fl in axils, mostly clusters of fls at ends of short branches v at end of st. Basal lvs missing

8-12-31 Sonchus Plumieri L. Coste II 435 = Mulgedium —— DC. Bon 188 = Cicerbita —— Kirschleger SvK I 725 Fl v young fr

8-12-31 young fr. Sonchaux westward on path to Caux shortly after entering woods. One plant only seen, and uppermost part of st. missing. Plant over 3 ft. stout, Lower lvs ample to 22 in overall by 9 in. Petiole broadly winged, above that blade cut to rit into 2-3 pairs large downward pointing lobes, then large triangular terminal lobe. Upper lvs similar but petiole relatively broader winged & terminal seg. relatively smaller. Auricles of lower lvs def. rounded, those of upper lvs also rounded but with ending in point below. Infl glabrous. Oldest fr. now 6 mm, flat with almost wing edged, prob 5-nerved.

8-12-31 Moehringia muscosa L. (See 6-3-31) Fl & fr. L. Tour-Sonchaux. Seeds (seem to be) 4-6, shining black, the fluted shield shaped appendage almost as long as seed (Note M. dasyphylla Bruno which Coste says has large appendage not given in SVK.) Cfd (as to fr) with Arenaria trinervia L. similar but a little darker & larger & appendage rather larger

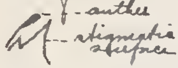
8-12-31 Arenaria serpyllifolia L. Coste I 209, Bon 50, BV 71 A 308 Fl & fr. Sonchaux. Fr. def flask shaped & very firm.

598
8-13-31 Epipactis
Fl. Sonchaux westward on path to Caux shortly after entering woods, exact position forgotten. Carefully cfd

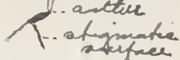
with what seems typical E. latifolia. All are seen frequently about Ilion.

St 10 in high. Lvs small & comp. less broad than E.l—, the largest 7.5×2 cm, and less markedly clasping than E.l— Lvs all longer than internodes. Lower bracts longer than fls, upper bracts somewhat shorter than fls. Fls about 14 in 1-sided spike, shaped like E.l— as to petals & sepals but smaller (longest sepal 8mm long) and the outer section of lip, while obscurely crested like E.l— lacks the dif protuberances at base. Color dif from E.l— in that the 5 upper parts are yellowish green with no tinge of purple; outer section of lip slightly paler and inside of inner section of lip alone is purplish. The greatest dif however is in stigma, as shown by cross section

E. latifolia



This species



In E.l— the anther lies in hollow behind stigmatic surface. In our species anther lies on stigmatic surface so that pollen can fall directly on it.

This points directly to E. leptochila. Godfrey B&H Ill II #343. (no synonym given) Query: is this = ~~E. latifolia Crantz~~ E. viridiflora Reichb B&H 454 described in similar terms? and also = Helleborine latifolia Druce var. viridiflora (Hoffm) Briq S&K II 75 the desc of which makes no mention of stigma but as far as it goes is applicable

8-12-31 Carum Carvi L. (See 7-11-31) Fl & fr. Sonchaux.

8-12-31 Dentaria pinnata Br. (See 4-18-31) Fr. Sonchaux
Note: partition thick & spongy with seeds somewhat imbedded with rounded side in & flat side out

8-12-31 Prenanthes purpurea L. (See 6-27-31) Fr. Glion
Achene 4 mm, pappus 7 mm long. Achene light brown not whitish (Coste) or gray (Bon)

8-12-31 ?? Rhinanthus angustifolius Gmelin S&K I 614, Coste III 51 (See BVH 352) Fl Sonchaux. 12 in high, glabrous, black-dashed. Lower internodes short (5-10 mm) lvs fallen. St branched in section from about 2½ in above base to about 7½ in above base (the upper branches long & fl-bearing, the lowest still very small). Intercalary lvs (3 pair) bet. upper branching & terminal infl.
Using key in S&K I: Tooth on upper lip of corolla 1.5 mm. Oldest calyx glabrous (except very slight [illegible] on edges) and shining. Lowest teeth of bract to 6 mm very fine pointed, the upper teeth much shorter (most like Fig 110)
Corolla 14 mm long. Very diff to decide about position of corolla tooth, which seems more nearly horizontal than Fig 108. Outline of plant most like Fig 104. St lvs to 35 X 4 mm., very narrowly linear lanceolate.

8-12-31 Lotus corniculatus L. (See 4-16-31) Fr. Glion. Dist. from L. uliginosus Schk by S&K I 407 in that lower pair of lfts are not "keruandl. keilfg." Note that in many cases the calyx lobes are still more or less erect on pod tho sometimes as spreading as B&H Ill II fig 128 of L. uliginosus

8-12-31 Hippocrepis comosa L. (See 5-8-31) Fr. Pod seddish & def. glandular, about 2.5 mm wide (Bon), not more than 3/4 in long. (B&H says 1 in)

8-13-31 Gentiana Pneumonanthe L. Coste II 563 Bon 215, B&H 313. S&K I 528 Fl. bought in Montreux "gathered in vicinity". Dots on bands of corolla outside, show more plainly inside & Sinuses (at least sometimes) with one sharp tooth. Ovules show plainly that seed will be "durch die lose Aussenschale geschwänzt"

8-14-31 Colchicum autumnale L. (See 5-12-31) Fl (1st of season) Glion

8-14-31 Filipendula Ulmaria Maxim. (See 6-28-31) Fr. unripe but capsules def spiraled. Glion.

8-14-31 Mentha arvensis L. Coste #81, Bon. 248, B&H 360 & 711 SvKI 574. Fl. Glion. Near beginning of path from Glion towards 2nd saw-mill. Ident. by axillary fl.-whorls, corolla hairy inside, calyx glabrous inside with 5 equal, short triangular teeth. But calyx besides the 5 main nerves has 7-9 more obscure nerves (SvK says "10-nerved", Coste say "5-nerved")
[See M. verticillata L. SvKI 574 not given in other manuals]
Cf. with M. rubra Huds (8-10-31). Fls 4 mm or small. Calyx def. hairy

8-14-31 Chenopodium Bonus-Henricus L (see 5-9-31) Fr. Glion. Perianth far from covering fr. (Coste says "incompletely" B&H say "completely") No terminal fr. developed (Coste says should be ~~vert~~ horizontal.

8-16-31 Parnassia palustris L. Coste I 168, Bon. 39, B&H 177, & 449. Fl. Jaman tunnel Col & Greralley. Note ovary def angled (Coste) tho G says "subterete".

8-16-31 Aconitum paniculatum Lamk Coste I 52, Bon. 11, SvKI 258 Fl. Direct path Jaman Station to Col de Jaman, lower part. One locus (perhaps only one plant). Carefully cfd with A. Napellus at found nearby v elsewhere. Exactly like ill. Coste & Bon. and agrees with SvK in that hairs on uppermost stems of infl are glandular, (probably

tho difficult to be sure) articulated; stamens & carpels glabrous. Helmet 27 mm longest pos meas., 15 mm high upper part x 17 mm wide. Sepals all more veined than A. Napellus, & variegated lighter. Bet stamens & perianth 5 short staminodes(?) awl-shaped but purplish whereas filaments are white. Lvs cut to base, principal segs 3-4 cm wide

8-16-31 Delphinium elatum L. Coste I 50/58, Box 10. S&K I 257 Fl. With above. Only purpose to S&K. Plant pub. below but at above glabrous & glaucous (bloom rubs off) All lvs softly pub (20x). Infl in one plant glabrous, in a 2nd (H) gland-pub. Subtending bracts never longer than pedicel narrow; the lower ones much shorter & divided to base into 3 narrow lobes. Pair of bracts on pedicel above middle & reaching to base of fl. (not as desc. & ill Coste). Petals very dark, all notched at top, the 2 spurless ones pubescent on upper surface. Carpels (follicles) 3, in (a) glabrous, in (H) pubescent. Lvs not cut clear to base. (See 9-2-31

8-16-31 Lonicera nigra L. Coste II 234, Box 138. S&K I 639 Fr Shortly west of Col de Jaman. Lvs glabrous, edges almost parallel, shortly & broadly acute, often squarely truncate at base. Peduncles very slender, 2.5 cm, glabrous. Fr largest in well devel. spec. each half 12-15 mm diam.).
Pith white. Lvs to 6.5 x 2.5 cm, dull grayish-green beneath with mid-rib whitish beneath

8-16-31 Sedum album L. (See 6-20-31) Fl. Jaman. St literally dashed with red; petals pink nerve (esp outside) & petals & carpels suffused pink so that general effect is far from white. Lvs have fallen from upright st but in all essential char. same as plant common on walls Clion & Montreux.

8-16-31 Gnaphalium sylvaticum L. (See 7-22-31) Fl Col de Jaman. Surely same sp as 7-22-31. Looks much more like BuH Ill I Fig 509 than like BuH Ill II Fig 218 (not at all like this) (a) St 30cm; infl 14cm. (b) St 35cm, infl 12.5cm. Fl head (in fl) 6mm (SvK says 5mm.

8-16-31 Achillea macrophylla L. Coste II 353, Bon 169, SvK I 682 Fl Path Jaman to Col de Jaman near bottom. Root not col (Coste says "rampant") but young shoots just showing at base of st. St & lvs softly puberulent. St ± 2 cm high. Lvs more or less imperfect but like ill (Bon). Invol bracts pale & thin, with green stripe down center & brown edges. Scales with dark denticulate tips. Invol 5mm high, just hidden by the reflexed rays. Fl all white. [See 8-6-34]

8-16-31 Saxifraga aizoides L. (See 7-31-31) Fl Jaman - Col de Jaman & on towards Brecalley. Much better developed plants than 7-31-31 and like ill (Coste and BuH) also more numerous & fl. But lvs show same pores as noted 7-31-31 [8-6-34 Fl. Jaman Petals vary in diff. plants from bright yellow to

Ref. orange effect.]

8-16-31 Eriophorum latifolium (See 7-11-31) Ident. acc to S&KI 93 All lf sheaths close fitting & with no sign of ligule. St. obscurely 3-angled (esp. above), pedicels rough (esp. at top). Fr. red-brown 3x1¼ mm. Fl. Common in marshy field just beyond Greenalley toward Col le Jaman (where E. angustifolium Roth found 6-12-31). St. lf-blades short (5.5-8 cm) rough at tip. But perianth bristles not papillate (20X). Item about "nodes Tragbl" not understood. B&H Ill II = 401 consulted.

8-16-31 Adenostyles albifrons Rchb. (See 6-12 & 30-31) Fr. Achenes 4 mm with 8 longitudinal ridges. Pappus 4-6 mm.

8-16-31 ?? Scabiosa lucida Vill. Coste II 280, Bon. 148, S&K II 328 = S. columbaria L. ssp. lucida Vollman S&K I 648. Fl & unripe fr. Jaman shortcut to Jaman Col towards base. (a) St 14½ in, naked above 1½ in. (b) St 9½ in, naked above 2 in (c) St 6½ in, naked above 3 in. In all cases st. simple, 1-headed. Lvs on sterile shoots & 1-3 pairs on flowering sts not divided, but bluntly crenate, rounded or blunt at apex and narrowed at base into petioles which are long on sterile shoots shorter on fl-sts. These lvs to 2x1 in not unlike ill Coste for S. pyrenaica All. Uppermost pair of lvs almost sessile, deeply cut (to margined mid-rib) into narrow (often toothed) lobes, the terminal lobe only slightly broader than the others (very like ill Coste of S. lucida). Sometimes an intermediate pair of lvs. has broad tip (like lower lvs) and narrow

8-16-31 narrow lateral lobes. All lvs finely pubescent on edges & nerves beneath & petioles with upward pointing hairs. St finely & deflexed pub. esp near top with downward pointing hairs. Involucral lvs 13-15, narrow (2 mm or less, shorter than head. Head 2,5 cm diam (only 1 to measure). Fls lilac, the outer radiant. Head in fr 1,5 X 1.5 cm (not counting bristles), involucral bracts reflexed. Body of fr (a. & S) 3½ mm, deeply furrowed & pubescent on the ridges. Crown 2 mm deep. Bristles 6 mm long, black, very narrow at tip & certainly twice as wide at base but signs of nerve (if any) very obscure. Calyx (onto which bristle are set now bright green & glandular. Bristles green at base at anthesis.

8-16-31 Geranium phaeum L. (See 5-24-31) Fl & fr. Jaman near above. Seed smooth, brown (rather light). When carpel opens no tuft of hair at base of suture.

8-16-31 Geranium silvaticum L (See 5-9-31) Fr. Jaman (Observed as very common on mountain as well as at Glion when in fl. earlier) Seed smooth, very dark brown. Opened carpel has tuft of white hairs at base of suture.

8-16-31 Rumex arifolius All Coste III 197, Bon 271, B & H 396 and Ill II #322, S & AI 311. ♀ fl & young fr. Jaman near above. Lower lf 6 cm, st-lf (2nd below top) 4 cm wide, exactly as ill (Coste), auricles more rounded than ill B & H II., deeply clasping [Observed later common in Naye region. 6-8-34 ♂ bud. Cfd

with R. Acetosa L.]

8-16-31 Deschampsia caespitosa P. Beauv. Coste III 587, SvK I 56, G 140 = Aira — L Bon. 358, BvH 539 Fl. Jaman Lf blades as desc (SvK) with the rough green ridges on upper surface connected by colorless stripes and blades rolled (by lengthwise) in drying. Spikelets 4 mm long.

8-16-31 Poa alpina L. Coste III 615, Bon. 369, BvH 561. SvK 90, G 156 Jaman. This is the viviparous grass common on Naye. Perhaps found with developed spikelets earlier. This spec with only empty glumes & a few viviparous spikelets remaining. [See 8-29-31

8-17-31 Polygonum Convolvulus L. Coste III 204, Bon. 273, BvH 398, G 362, SvK I 214 Fr. Glion Fr 4 mm long. Perianth roughish

8-17-31 Cornus mas L. (See 3-29-31) Fr. Glion Fr often over 1½ cm long on pedicels about 1 cm. Fr with a few hairs (appressed, attached in middle.) Fruit tasted (acid & juicy). Lvs lighter green than C. sanguinea, flatter & shining beneath

8-17-31 Cornus sanguinea L (See 5-30-31) Fr Glion. Fr 5 mm high & a little broader, thickly covered with white hairs (appressed & attached in middle (20X)) making surface look white dotted to eye. Lvs (as in C. mas) with hairs (appressed & attached in middle but beneath also hairs (simple & spreading)

8-19-31 Cobaea scandens Cav. BMJ C.P. 619 Fl. Cult Hotel de la Tour. Bouveret. Corolla 2x2 in. Calyx segs 1⅛x1 in, pale, glaucous green. Disk ½ in diam, 5-lobed (each lobe with triangle down center) St, tendrils & veins on lvs beneath purplish. Lflts petiolate, about 1½ x ¾ in.

8-19-31 Lobelia Erinus L. BMJ C.P. 7 #6. Fl & fr. with above. 2 lower anthers only bearded at edge but the others def. hairy on back near tips. Seeds oval, shining brown, about .6 mm long, neither angled nor winged.

8-19-31 Cyclamen europaeum L. Coste # 533, Bon 209, BU # 301, SU K I 517 Fl & lvs (no roots) bot at Bouveret. Lvs very ob-scurely crenate, purple beneath, light green blotches above. Flw 16 mm high x 8 mm diam at throat.

8-19-31 Lycopus europaeus L. Coste III 83, Bon 248, BU H 357 G 710 Fl & unripe fr. Bouveret. Prob more than 3 ft high, St near base ¼+ in wide. Calyx 3 mm - 3½ mm high of which tube is ½ of length & awl-shaped stiff tip of lobe ⅓ of length. Bracts about length of calyx, some very narrow, some def. broader than calyx lobes. In oldest fr, achenes no longer than calyx lobes not counting subulate tips. Corolla, ~~hairy~~ inside. Sterile stamens about ½ mm or less, ~~hairy~~ or not at

all bent[illegible] at top. Unripe achenes glandular on upper & inner surfaces.

8-19-31 Lysimachia vulgaris L. Coste II 536, Bon 209 BvH 301 BM&CP 585 SvKI 518. Fl. Bonveret. St with obscure rounded corners, its hairs articulate not glandular. Calyx 4-5mm, def red margined, its ciliation very short, mostly glandular. Corolla glabrous on back & edges but upper surface (like filaments) covered with sessile glands. Filament joined for about ⅓ their length.

8-19-31 Senecio erucifolius L. Coste II 304, Bon 163, BvH 355; SvKI 696 Fl & very young fr. Bonveret. St 40 & ft high, about striate, reddish at base, somewhat cottony. Effect wand-like and lfy. Upper lvs closely sessile the lower lobed parts being what[illegible] by auricles. Lf like ill Coste except lobes usually again deeply toothed or lobed.

8-19-31 Odontites serotina Reich Coste III 47 = Euphrasia —— Lam SvKI 604. Inc in O. rubra Pers Bon 238, (See O. rubra Gilib G 734) and inc in Bartsia Odontites Huds BvH 350. Fl & unripe fr. Bonveret. (Very diff to decide whether this or O. verna Reich = E. Odontites L. sens strict) Plant 38 cm high branched from near base with many simple, widely diverging & sometimes upward curved branches about 15 cm long; pubescent

8-19-31
pubescent with downward pointing hairs. Plant not at all glandular. St lvs broad lanceolate 27 x 11 mm rounded at base to about 7 mm across but with no def. narrowed look; teeth shallow; apex bluntly acute. Lvs on branches similar but smaller (about 1 cm or less) Bracts similar smaller & more nearly entire those on upper part of infl (now in blossom) almost exactly same length as fl. Lvs softly pub. with upward pointing hairs. Many lvs (studied 8-20) reflexed. Calyx 5+ mm of which 2+ mm forms the triangular-lanceolate teeth. Corolla 8 mm of a dull pale pink with darker red at base of lower lip. Lips velvety-silky pub. outside, slightly pub. inside. Anthers yellow (slight tinge of purple when young), almost glabrous (B&H) but with few hairs where attached to filament and a few glutinous hairs (making them tend to stick together) at apex. Anthers & style just exserted. Oldest fr now oblong, hairy, shorter than calyx with about 12 longitudinally striate seeds. [Common 9-6-31 Bouveret-Novillo] [See O. verna Reech 6-28-33] Sierre 8-17-34.

8-19-31 Coronilla varia L. Coste I 405, Bon. 90, ~~[illegible]~~ G 516, BM&CP. 416, S&K I 413 Fl & fr Bouveret. Stipules very small. Lfts vary greatly in size: those on lower lvs 2.5 x 1 cm, on upper lvs 10 x 3 mm, all oblong truncate-rounded & apiculate at apex. Claw of standard strongly arched upward. ~~Style~~ Stigma such that it seems a tubercle on back of style at & tip. Pedicels = or slightly longer than calyx [Found later fl & fr along St. regier; 8-17-34 Fl canal north of Rhone, on north bank near lake]

8-19-31 Dipsacus sylvestris Huds. G 769 = D. — Ill. Coste II 292, = D. — L. Bon 147, B & H 228 = D. silvestris Huds. S & K I 646. Fl. Bouveret. Lower lvs. toothed, with downward curved hooks on mid-rib beneath & a few thorns on upper surface. Note as (S & K) infl. begins opening in middle.

8-19-31 Melilotus altissima Thuill. Coste I 334, & 510. = M. altissimus Thuill. S & K I 398 = M. macrorhiza Pers. Bon 76 Fl & advanced but unripe fr. Bouveret. Fls 5 mm long in racemes longer than lvs, odorous, of a soft yellow, standard a little shorter than the equal wings & keel. Pendent pod 6 mm long, pubescent with short hairs (rather scattered), def. glabrous & keeled on back, faces (a & S) beginning to show reticulation. Seeds notched and (a & S) smooth. (Pod shaped like ill. Coste) Stipules small, awl-shaped. Lflts of lvs oblong, truncate at apex, toothed. Plant has many spreading branches. (See 9-6-31

[= P. laxiflorum Weihe B&H 400, 2ll II 317]

8-19-31 Polygonum mite Schrank. Coste III 206, Bon 275 SvK I 213 Fl & fr. Bouveret. Perianth bright green below, bright pink at tips. Seed shining & smooth below, [3 angle] less so above (SvK "matt") Lvs lanceolate to 16 mm wide, def narrowed to base with def lateral nerves (SvK). Perianth div 5, stamens 6, styles not parted to base. Note perianth shows faint traces of gland-dots towards base. [Later lvs. ciliate on margin.] [8-2-33 Fl & fr Villeneuve-Bouveret. Lvs (20X) show no gland-dots like P. lapathifolium. If any they are very obscure.]

8-19-31 Polygonum lapathifolium L. Coste III 204, Bon 275, B&H 408, G 960, SvK I 213. Fl & fr Bouveret. (a) St green, fls greenish white; (b) st red, fls ± tinged pink. Both forms tend to dark spot in lvs, (b) especially. Gland dots present but not def enough to identify without other chars. which agree. Seeds 2 mm wide. Cfd with P. Persicaria L. Lvs longer petioled & broadest in lower third whereas P.P. has lvs broadest about middle (SvK) Note also bracts of infl like lf sheaths not ciliate whereas in P.P. they are ciliate.

8-19-31 Chenopodium polyspermum L. Coste III 185, Bon 268, B&H 387, G 967, SvK I 316 Fl & fr Bouveret. Fr with striations (20X) radiating from apex. [Later found at Aliou.

8-19-31 Mercurialis annua L. Coste III 245, Bon 282, B&H 439, G 543, SvK I 436 Fls ♂ and ♀ & fr. Bouveret (very near St. Gingolph) Cfd with M. perennis L. (no fl or fr). ~~If plant~~ Pl cuts as CA seem def. dioecious. Fr pedicels to 8 mm long. Capsules (across both) 4 mm wide X 3 mm high. Seed brown slightly roughened.

8-19-31 Phragmites communis Trin. SvK I 62, G 148, Bon 354, = Arundo Phragmites L. Coste III 561, B&H 565 = Trichoon Phragmites Schinz & Thellung SvK II 28 Bud Bouveret. Roots not col. Sts 1 meter x 3.5 mm is small specimen, larger ones not col, prob none more than 1½ meters. Blades of lower lvs short & now fall off easily. Upper blades longer (one near top 34 x 2 cm), tapering into fine long point. Lvs distichous to top of st., very rough on edges, Ligule a ring of hairs (mostly short & equal but a few longer ones (Coste says equal). Branches of infl in half-whorls, the lower ones very des. furnished at point of attachment with tufts of white hairs (SvK; Bon) Spikelets strikingly dark purple, 11-11 mm long, slender & pointed, 3-fld (perhaps more), the lowest lemma with 2 stamens.

8-19-31 Geranium rotundifolium L. Coste I 246, Bon 57, B&H 96, G 535, SvK I 426 Fl & fr. Bouveret (very near St. Gingolph). No doubt of ident. But lvs have no, or only obscure red dot in sinus (Coste) and as found 10-28 & 11-6-30 in Majorca. Fr almost 2 cm cm overall. Cfd with G. pyrenaicum L. (8-26-31). Upper lvs not greatly unlike. [9-29-33 Fl & fr. Bouveret. Lvs with very distinct red dots in sinuses.]

8-19-31 Stachys palustris L. Coste III 115, Bon 253, B&H 368 G 702, = S. palustre L. SvK I 565 Fl & unripe fr. Bouveret. Note Calyx gland-hairy (SvK I says always so in Suisse) St decumbent & rooting at nodes. Stamens show no tendency to curl outwards. Corolla calico-marked purple & white, not as ... red in ... effect as

8-19-31 as S. silvatica L. (common around Glion) and brighter in color than S. alpina L. (less often around Glion) Corolla 10-13 mm. Cf'd with S. silvatica L. & S. alpina as to all except corollas.

8-19-31 Hypericum hirsutum L. (See 6-23-31) Unripe fr. Bouveret.

8-19-31 Leontodon autumnalis L. Coste II 417, Bon 184, B&H 269, G 863, S&K I 716 Fl & fr. Bouveret. Achene & pappus, each 5 mm.

8-19-31 Cardamine flexuosa Wither S&K I 302, B&H Ill II #39 B&H 34 = C. silvatica Link Coste I 106, Bon 27 Fl & young fr. Bouveret. St ± hirsute, not thickly so (S&K), each node slightly bent, so whole effect is wavy. Fl. pedicels 2½-4 mm (S&K) Stamens 6. Fr. overtops fl. at. perhaps more than ~~..~~ a pair. Lvs as desc. & ill (Coste & B&H Ill II) except that segments are often relatively longer & deeply lobed or pinnate or with 1 or more small lobes on or at base of their stalks.

8-19-31 Linum catharticum L. (See 5-29 & 7-16-31) Fl & fr. Bouveret. Growing in wall with slender, decumbent almost woody (suggest thyme) branches from top of root; these throwing up many lfy (short internodes) branches some of which terminate in diffuse infl.

8-19-31 Crataegus Oxycantha L. S&K I 349, BM&CP. 376. G 462 B&H 159, Bon 102 = C. oxycanthoides Thuill Coste II 66 B&H Ill II #179 Fr. Bouveret. Lvs asdesc. Fr oval 1cm high. Styles 2, Calyx lobes entire but not as narrow as sug by B&H Ill II. Nutlets 2 so tightly together that might be mistaken for 1.

8-19-31 Panicum Crus galli L. S&K I 46, B&H 529 = Echinochloa — P.B Coste III 551, G 117, BM&CP. 109 = Oplismenus — Kunth Bon 352 Fl & immature fr.

8-20-31 ? Amaranthus retroflexus L (see 7-19-31) Fl & fr. Union westward, perhaps on upper path to 2nd sawmill (not locus of 7-19-31) St. covered with short, articulate-curly hairs. Lvs paler beneath pointed at base, obtuse with short mucronate apex. Infl of thick compound spikes, 5cm long in axils, terminal one similar 7 cm long. Bracts awn-pointed, longer than perianth, thin & white ~~silvery~~ except the broadish, rounded green mid-rib, 4-5 mm long. Perianth segs. linear spatulate, 3mm x 1mm, blunt at top but slightly notched with minute mucron in sinus, white except for green mid-rib which does not reach to apex. Capsule shorter than perianth, wrinkled above, 3-pointed, dehiscent. Stamens & perianth division 5. Lvs almost a ~~cute~~ glabrous, veins strongly ~~marked~~ beneath and (20x) with white deposit showing in broken lines under skin.

8-21-31 Gentiana asclepiadea L Coste II 562, Bon 215, S & K I 529 Fl. Cfd with G. Pneumonanthe L of 8-13-31. Bought by Miss MacKenzie "Col. bet. Montbovon and Chateau d'Oex"
No roots. Lvs mostly removed but the lower parts of some stem among fls 5-20 mm wide & 5-(or more) nerved (Quite diff than G. Pneumonanthe. Fls all sessile (G. P— has lower ones at least pedicelled) Calyx clearly tubular (or bursting on one side & spathelike) with very short linear, distinct teeth from the truncate rim. Corolla lighter blue than G. P— with less def longitudinal bands outside with dull dots all over the inside surface. Ovules already plainly that seeds will be "ringsum breit geflügelt"

8-21-31 Cirsium
Fl & fr. same species & same place as 7-19-31. Root thick (10-13 mm) swelling to almost 20 mm toward point where lvs develope, perh. creeping, gnarled, with many thick side roots but none found enlarged into tubers. Some of basal lvs only shallowly lobed or deeply dentate, irregularly spiny, contrasting with st. lvs which are lobed almost to midrib, and sharp pointed at apex. Best guess is that this is hybrid of C. oleraceum Scop X C. acaule All both common in general region or poss C. oleraceum Scop X C. ~~palustre~~ arvense Scop. See S & K II 350

8-22-31 Sorbaria sorbifolia A. Br. BMJCP 363, J457 SvKII 150 Unripe fr. Cult. Glion near beginning of upper path to 2nd saw-mill, spreading from garden. Lfs pale branchonly col. St reddish & zig-zag, upper parts very finely puberulent and like youngest lvs with traces of deciduous brown stellate pubescence [(very occasional)]. Pendulous seeds enveloped in long loose coat. But as carpels are somewhat pubescent consider S. stellipila Schneid. BMJCP 363

8-22-31 Saponaria officinalis L. Coste I 186, Bon 46, BvH 69 J386, BMJCP 365, SvKI 235 Fl & young fr. Glion. Road entrance to Café des Narcisses & hence perhaps escaped. not seen elsewhere.
[6-26-34 Fl Glion → Montreux. Fls. double and of 7 examined. 5 had 3 stigmas while 2 had 2 ~~stigmas~~ styles. In other respects correct.]

8-22-31 Scrophularia nodosa L. (See 6-9 & 19-31) Fr. Glion
Capsules 5-6 mm high, ovate, sharp pointed (SvKI 588)

8-25-31 Malva silvestris L. (See 6-24 & 7-19-31) Fl & fr. Glion
Unripe fr with yellowish warty bulges on upper part. Ripe fr. net-ridged (or pitted) with edges of carpels sharp. Lvs & fras ill (Coste)

8-25-31 Oenothera

Fl. Glion. Rock west of Glion just beyond

1 spec only. had been cut so only 2 branches 11in long near base, swollen & red at point of attachment. Plant has fresh green glabrous look. but st puberulent with upward arched hairs & lvs puberulent both sides with erect hairs. Lvs to 5.5 X 3 cm Lower lvs smaller, obovate, rounded & apiculate at apex, narrowed at base into short petiole. Upper lvs oblong or lanceolate, sharper at apex & sessile with faint signs of teeth. Lower fls (now developed) only ½ as long as subtending lvs (3½ cm high to top of calyx. Petals yellow, almost ob triangular with rounded corners, apex flattish & slightly wavy (not def cleft) 20 X 23 mm. Calyx tube (ex. ovary) 25 mm. Sepal appendages 4-5 mm. Stamens seem all of equal length, shorter than corolla. Stigma 4 parted. A few longer hairs on st. have small green tuberculate base. Capsule with st(ipp?) tuberculate based hairs, the oldest one now 17 mm high!

See O. biennis L. Coste II 82, Bon 105, BVH 159 & BVH II #196, G 598, BMJ CP 550, SvK I 470 the chief objection to which is G "bracts shorter than or scarcely exceeding the capsules".

8-25-31 ? Campanula alliariaefolia, wild ~~punctata Lam.~~ BMJ C.P 741, SVK II 533

Fl & unripe fr. Cult. Val-Mont. Sts many wand-like to 3 ft, not branched, pubescent but hardly tomentose. Basal lvs on long petioles, ovate, cordate (the sinus squarish at top where bordered by veins, the lobes broadly

rounded, broadly acute at apex, obscurely crenate, roughish pubescent above, softly tomentose beneath. 5 X 3¼ in. (~~petioles long, bases not collected~~) [to 7¼ X 6 in.]
St. lfy from base. St-lvs similar to basal but smaller, relatively broader, deltoid in the broad sinus, more def. crenate, rougher both sides & less or not tomentose beneath, lower ones petioled, upper ones sessile becoming bracts (i.e. shorter than fls). Corolla white (sometimes very elusive tinge of purple) 3 cm high X 2-2½ cm diam at tips, cut ⅓ of length, glabrous inside, very short puberulent outside, conspicuously ciliate with hairs 3-4 mm long. Calyx lobes ovate lanceolate, 1 cm (sinus to tip) acute, edges reflexed, rough with short hairs, each sinus with oval (tip rounded) [upturned] appendage 5 mm (sinus to tip). Corolla prob would be called "long-bell-shaped" and at each sinus is slightly pinched outward but hardly "appendaged." Fls. erect on stout, very short peduncles or in lowest axils peduncles to 8 mm with 1-2 tiny bracts. Lowest st-lvs bear small lfy buds in axils but these seem not to develope into branches. After infl fls stand at rt ∠s to st. Ovules flattened & look as tho' would be bordered later. [8-5-34 Fl pendant. Lvs & st. could be called tomentose. Plant escapes to paths etc at V-M. Miss Fraser says it becomes a "weed" in her garden on Isle of Wight

8-26-31 Stellaria aquatica Scop. H 383, B&H 76, S&K I 235 = Malachium aquaticum Fries Bon 52 = Cerastium aquaticum L. Coste I 216 Fls fr. Charnex—Brent. Unmistakable. No petioled lvs on sts as collected. Fls 12 mm diam; petals 10 cm high only slightly exceeding calyx and often seem almost equally 10-toothed. Lvs to 2 X 1¼ in. [5-25-34 Fl Styles alt. with sepals as desc. Coste & Bon.]

8-26-31 Ononis spinosa L. SvK I 895, B&H 110 Ill II #122 ~~—~~ = O. campestris Koch Coste I 311, Bon 72. Fl & fr. Chernex-Brent. Fls 2 cm long, wings shorter than keel; keel shorter than standard and split at base. St with 1 def. line of hairs (Bon, SvK) but ± pubescent on rest of surface. Lvs. def. narrower than O. repens L. with which cf'd. St. erect to 2½ ft., def. thorny but thorns not "geminées" (Coste) [Knoche II 68 "O. campestris Koch etz = O. spinosa L."]

8-26-31 Equisetum maximum Lamk. Coste III 712, Bon 383, SvK I 15 = E. Telmateia Ehrh. B&H 571 Sterile sts. Chernex-Brent. Lower part of sts now turned black but upper parts greenish white. Branches to 8 in long, 8-angled.

8-26-31 Borrago officinalis L. Coste II 580, Bon 220, B&H 326 BM of CP 622 Fl. & fr. Blonay. Note nutlet "terminée in thin flange-like edge" noted 1-23-31. Note also that nutlet falls with white, round-based gynobase attached leaving rounded pits in receptacle and nutlet shows "base concave entourée d'un rebord saillant plissé" (Coste) only when gynobase is removed. Sepals accrescent in fr. Nutlets 5 mm high.

8-26-31 ? Amaranthus hybridus L. var. hypochondriacus Bailey. BM of CP. 252 = A. — L. forma — Robinson & 371 = A. — L. ssp. — Thellung var. erythrostachys Thellung SvK I 222. Plant (roots & all) found dropped on one of lower paths at Val-Mont so don't know if cult or wild. Plant 8½ in

high, stem almost glabrous, pubescent below infl. Lvs & infl. deep red. Lvs similar to A. retroflexus but with no rhombic tendancy. In axils of lvs are short thick, flat topped clusters of fls about 5 mm high. Upper half of plant (4½ in.) consists of narrow (1.5 cm at widest) leafless infl. made up of clusters of fls like those in axils of lvs below, the general effect broken silhouette (as might be produced by verticillate arrangement) See BH of CP "clumpy". Many of the bracts are long awned & certainly twice as long as perianth parts which differ from A. retroflexus in being lanceolate, with acute with mid-nerve prolonged into short tip. Capsule 3-pointed, longer than perianth, wrinkled at top, dehiscent. Infl & fl much like ill (Coste) of A. patulus Bert (except that the axillary clusters not long as in ill. St of infl with same curly pubescence as A. retroflexus (See 7-19 & 8-20-31) with which cfd. But consider A. paniculatus L.

8-26-31 Equisetum palustre L. Coste III 713, Bon 383, BrH 392 f 52, SvK I 16. No fr. Charnex. Poor spec (top gone) col with other plants. Ident by black, lance-subulate, white margined teeth; centrum hardly larger than other holes; lowest section of branches shorter than st-sheath (SvK) Branches 5-angled (more sharply than BrH ill I but much less so than ill Bon) and & mostly solid.

8-26-31 Geranium pyrenaicum L. (See 4-25-31) Fl & unripe fr. Cfd with G. rotundifolium (8-19-31) Seed now finely & minutely (20X) pimply (H and SvK say smooth) but not promising to be reticulated as in G. rotundifolium. [Later seeds practically smooth when ripe.

8-26-31 Torilis arvensis Link (See 7-10-31) Fr. Sonzier Blonay. Cf with T. Anthriscus Gmel

8-27-31 Gentiana campestris L. Coste II 561, Bon 216 B&H 314. S&K I 531 (ssp campestris since lower lvs are spatulate i.e. broadest at apex & no lvs of young shoots present tho not mixed with dry remains of last years lvs.) Fl Naye (later found also Chamossalaz). Fls 2cm high (to throat of corolla) & 2.5cm across Lvs to 13mm wide.

8-27-31 Circaea alpina L. Coste II 84, Bon 105, B&H 160, G 602 S&K I 471 Bud, and unripe (not full size) fr. Naye-Caux perhaps upper path Sonchaux-Caux. Cf with C. lutetiana L. Bracts under pedicels minute but thick & broad at base (hardly 20X) with minute linear tip. Petals promise to be shorter than calyx. Fr all 1 seeded. But note that petioles are grooved (not winged) with a few hairs on edges. Stg infl sparsely hairy Calyx less than 2 mm long. Plant bears slender white-pink stolons to 2½ in long bearing small opp scales and at end a tuberous (bud) enlargement. Plant 4-6 in high, sometimes branched from base, the branches somewhat swollen & pinkish at lower end. Calyx almost sessile on ovary (i.e. tubular effect between which in C. lutetiana is 1 mm long) Bristles on fr less widely hooked than in C. l — [8-14-33 C. intermedia Ehrh found in fl on upper path Sonchaux-Caux exactly like 8-10-33 but not like above desc of 8-27-31 which still seems sure to have been C. alpina L.]

8-27-31 Sedum montanum Song & Perr. Coste II 117 = S. ochroleucum Chaix var. montanum Burnat. S&K I 324 (See also desc & ill S. anopetalum DC. Bon 111.

Fl & young fr. Craux-a-la-Ciege above Sonchaux. Typical sterile shoots rather compact with lvs (more like ill of S. rupestre L BVH Ill I[a] 369 than like ill Coste) Sepals thick Δ ular, acute, a little concave on back, 4-5mm long & fully half the length of 8-9mm petals. Petals almost linear, 2mm at widest part about middle, bluntly acute, concave on inside, more or less erect (never spreading flat). Sepals, petals, carpels usually 6. Stamens glabrous. Sepals & sts of infl minutely glandular. St. lvs 13x2.5mm sharp pointed [8-14-33 Fl. At same spot with sterile shoots exactly as ill Coste]

8-27-31 Verbascum Lychnitis L. Coste II 621, Bon 228, BvH 337, G 719. SvK I 584 Fl. just above Craux-la-Ciege. Cfd with V. nigrum L and with plant with no fl but unripe fr with char (as far as seen) of V. Thapsus L. [8-14-33 Fl at same place]

8-27-31 Aconitum Napellus L. (See 6-30 & 7-24-31) Fl & unripe fr. Naye below Sautodoz on path towards Sonchaux. Oldest carpels widely divergent. Unripe seeds begin to show wings on some edges.

8-27-31 Aconitum paniculatum Lamk (See 8-16-31) with above. Fl & young fr. Carpels now very young not widely divergent but as much so as those of similar age in A. Napellus. The young seeds (which look as tho' they would mature, thus ruling out A. intermedium DC. SvK I 258) begin to show wrinkles on sides. Note A. variegatum L only there poss. SvK. is desc BMJCP. 285 as "without manifest or projecting wings but see SvK "vorn in einen Schnabel ausgezogen"

8-27-31 Serratula tinctoria L. Coste II 400, Bon 181, B&H 258 SvKI 718 (ssp. macrocephala Rouy since heads are 2 cm high and involucre sometimes 8 mm diam.) Fl. Just below Sautodoz on path to Sonchaux. Exactly like ill (Coste) except st. not branched & almost or quite sessile heads in terminal & upper-axillary clusters. Plants 12-17 in [7-26-34 Fl & immat. fr. Naye. Invol 15 x 7 mm. Achenes 5½ mm. Sts 12-24 inches. Invol broadly rounded at base; bracts glabrous except on wooly edges]

8-27-31 ? Peucedanum Oreoselinum Moench Coste II 177, Bon 127, SvKI 500 Fr almost ripe Naye-Sonchaux path in upper part of path. Identified chiefly by curious habit of lvs which on main & secondary rachis bend backward at some (at least) of nodes as tho broken. (This char not noticed until lvs had been exposed to air for short time so not sure it was apparent when growing). St 26 in high, solid, ridged with lighter colored ridges. Invol & involucel of numerous linear reflexed bracts. One umbel had 25 rays 1½-2½ in long making umbel slightly convex, about 6 in diam. Rays ridged, rough pub. on upper side. Pedicels 8-14 mm. Fr 8-9 x 7-8 mm hence not quite circular, winged on edges with 3 dorsal ridges, slightly notched at base but hardly so at apex. Stylopodium depressed, the reflexed styles twice as long. Commissure shows wing 2 mm, a green nerve curved outward to parallel margin, space of 1 mm brown nerve slightly curved outward, space of 1 mm brown nerve, space of 1 mm, green nerve, wing 2 mm. Calyx teeth evident, very small. Bracts too dry to see if once scarious, margin has very short hairs (20x) but could hardly be called ciliate. St rather abruptly enlarged into thicker ~~woody~~ stock at base & this part clothed

towards top, with ascending black capillary shreds. Basal lvs on long petioles & edged like st. but seem more round than triangular. Sheaths small. Lf blade ∆ular to 10×12 in. Compound with the ultimate divisions (n lobes) 2 mm wide and ±10 mm long, sharp pointed with reddish (perhaps "calleux") apex at tips. Shape just sege. most like ill Coste II 177 P. austriacum Koch which seem most likely 2nd choice. But S&K's desc points to P. Oreoselinum.
[See Coste II 174 where any fr points away from P. Oreoselinum]
[See 8-14-33 and 9-3-34 which makes it probable that this was P. austriacum Koch.]

8-29-31 Senecio viscosus L. Coste II 302, Bon 163, S&K 4254 & 853, S&K I 695. Fl. Path Sautodoz—Sonchaux. Cf with S. vulgaris Rays (blades 5×1.5 mm) spreading at first but soon rolled back.

8-29-31 Erigeron Villarsi Bell Coste II 291, Bon. 161 = E. atticus Vill S&K I 672 Fl v ...fr. Just below Sautodoz on path toward Sonchaux. 11-16 in high. Fl heads 6-8. St ffy. Ligules extending 5 mm above central florets. A ring of narrow-tubular ♀ fls very evident between ligules & the 5-toothed, purple-tipped ⚥ florets of center. Achenes pubescent. Heads in fl 15× ±12 mm, much wider as fr develops. (cf with ? E. alpinus L.) (8-29-31)

8-29-31 Epilobium montanum L. (See 6-20-31) Fl & fr. Sonchaux. Pods to 3 in long arching-erect. Seeds 1.5×.6 mm obovate, rounded at apex (S&K I 467), flat on one side with short edges & ± distinct nerve down middle, rounded on rest of surface, brown, ~~somewhat~~ rough. Infl rather zig-zag.

8-27-31 Cardamine flexuosa Withers (see 8-19-31) Fl & advanced fr. Naye-Caux. Bot. on upper path (wet) Sonchaux-Caux.

8-27-31 Ribes petraeum Wulf. (see 5-29-31) Fr. Woods Santodz-Sonchaux.

8-27-31 Lonicera alpigena L. (see 5-29-31) Fr. Santodz-Sonchaux. Observed on same bush as col. 5-29-31 and col. from others in vicinity. Glandular char. of 5-29-31 now visible only in obscure dry traces. Cf. with L. nigra L. from near by. Branchlets stouter, grayer (esp. youngest portion), peduncles much stouter & inclined to be erect; lvs almost twice as large 8,5 x 3,5 cm, truncate or acute at base but (when well developed) shortly but def. acuminate at apex, hairy on edge and beneath but somewhat shining yellowish green beneath. Pith white.

8-27-31 Pyrola secunda L. Coste I 284, Bon. 203, B&H 296, ♀ 628 Unique fr. Upper path Sonchaux-Caux.

8-27-31 Aspidium spinulosum Sw var dilatatum Hook 243 = A. dilatatum Willd B&H 584 = Dryopteris austriaca H. Woynar ssp. dilatata Schinz & Thellung. S&K I 6 = D. dilatata (? var) B&H 2le ed #479 = Polystichum dilatatum DC. Coste 8??, inc. in P. spinulosum DC. Bon 379 Sp. Upper

path Sonchaux-Caux. (a) Stalk 7 in. blade 13½ x 12 in. Scales lanceolate, acuminate, darker in center. Primary div. very acuminate. On lowest pinnae the lower (secondary) divisions to 3 in., while upper ones are 1+ in. Lvs dep 3-pinnate, below 2-pinnate apparently, with ult div. sharply toothed. Rachis scaley on under side almost to apex. Frond glandular beneath & indusia gland-ciliate. Sori (indusium withering) 1 mm (generously)

(b) surely same as (a) but scales not darker in center. Sori (indusium fresh) hardly more than 1 mm wide.

8-27-31 Dentaria digitata Lamk. (See 5-29-31) Fr. Sepapace path Sonchaux-Caux, not infrequent.

8-~~29~~27-31 Glyceria plicata Fries Coste III 608, SvK I 79 B&H Ill II #452. Fl. Sonchaux Caux, prob. wet places near Chalets. Sta Anthers yellow ±1 mm long. Lemma 4 mm, three f. scarious (& might be considered 3 toothed B&H Ill) at summit. Spikelets 15-17 mm long, 5 or more on a branch. infl. not one sided. Ligule as in B&H II but los sheaths almost smooth. This is prob the same as 4 ∂ 7-11-31. Branches now spreading.

8-27-31 Veronica fruticulosa L. (See 7-5-31), Fr. Seeds numerous. flat, thin edged, eliptical 2 x 1-1.5 mm.

8-28-31 Ligustrum vulgare L. (See 6-14-31) Fr. Also calyx forming a disk at base of fr.

8-29-31 Veronica alpina L. Coste III 39, Bon. 236 B&H 346 (all poor) S&K I 593, See G 728. Fl & fr. Rocher de Naye. Note Coste must be wrong in saying "glanduleuse" as no other manual says so and S&K says "drüsenlos" of hairs on st. No glands on any of several spec. Plants 2-5 in. stiffly upright from slender creeping base. St. capsules & calyx shaggy with longish white hairs. Lvs to 16x10 mm, glabrous or with few hairs on edges. Corollas 7 mm wide. Capsules hairy 6x5 mm, blue-green (like calyx), hardly notched but broad at top. Style 1.5 mm. Seeds many.

8-29-31 Campanula Scheuchzeri Vill. Coste II 502, Bon. 199, S&K I 659 Fl. Rocher de Naye. Rootstock slender creeping. St. somewhat decumbent at base, soon ascending, 3-5 in. high, stiffish, angled, ± purplish, glabrous (or nearly so), shining. Lvs narrow on lower 1/3 of st. Middle of st lfy. These lvs lanceolate to 33x5 mm, acuminate both ends, sessile, entire or dif toothed, short haired on edges & with spaced white hairs on petiole-like base* (similar hairs sometimes found on ridges of st.) Upper part of st ± lfy with similar but very narrow & not-ciliate lvs. Sts 1-fld. Corolla deep blue large & open: 23 mm long & equally wide, cut 1/3 of length into broad, obtuse lobes with narrow sinuses. Calyx tube 4-5 mm, its subulate erect lobes 10-13 mm. Fls nodding. Not 6 percent of buds nod.

(See 7-25-33)

8-29-31 ? Euphrasia minima Jacq. Coste III 44, SVK I 610 Fl v unripe fr Jaman-Naye. Annuals about 2 in high, simple or with 1 or 2 branches at base-middle. Corolla 4-5 mm, lower lip v lobes of upper lip bright yellow (effect as it grows is a yellow-fl.) the narrow calyx teeth as long as tube and reaching to top of corolla. Fls no longer than subtending lvs. St minutely but dep pub with downward curved hairs. Lvs almost glabrous, teeth sharp but not at all awned. [See 8-27-33 for fuller desc.

8-29-31 Cotoneaster integerrima Medic (See 6-12-31) Fr Rochers de Naye. Lvs dull gray-green above or turned red. Fr 7 mm diam. In several examined no sign of "stones or pyrenes 2-seeded" BM of C.P. 341.

8-29-31 Vaccinium Myrtillus L. (See 5-12-31) Fr Jaman-Naye. Fr 1 cm diam, tending to be black v shining, the entire calyx limb leaving top of fr open.

8-29-31 Vaccinium uliginosum L. (See 6-30-31) Fr Jaman-Naye. Fr ±7 mm diam much bluer v bloomier than above, Calyx teeth evident, withered corolla v (or) style often present.

8-29-31 ? Erigeron alpinus L. (See 6-30-31) Fl. R. de Naye eastern ridge where found 6-30-31. Sts 1-2 fld. This seems only

8-29-31
only pods but no ♀ fls with thread like cordlike around edge (Coste and SvK and as found 6-30-31) Plant with too much hair for E. glabratus Hoppe & Hornsch. and lvs not as dense for E. uniflorus L. or E. neglectus Kerner SvK I 671 [See 7-25-33 as to poss that this was E. glabratus

8-29-31 Laserpitium Siler L. (see 6-30-31) Fr. Naye. Fr slightly purplish, 1cm high x 4-5mm wide; wings def. but narrow, 1mm, styles strongly reflexed, almost 3mm long hence much longer than stylopodium, Fr with penetrating odor not quite like anise

8-29-31 Thalictrum aquilegifolium L. (see 6-12 & 30-31) Fr. New rd Chamossaley - Jaman. Fr as illd (Coste & Bon) with 3 wings on the 3 angles: 2 sides flat, the 3rd side with def longitudinal ridge (like a smaller wing) in line with reflexed top of style

8-29-31 Achillea Millefolium L. (see 7-19-31) Fl. Naye. Edges of bracts dark. Rays def. pink. Disk fls almost white.

8-29-31 Aspidium rigidum Sw. BvH 584
= Polystichum — DC. Coste III 688, Bon 378 =
Dryopteris rigida Underwood = D. Villarsii H. Woynar SvK I 5. Sp. Pr. Bon near rd Chamossaley-Jaman
Stipe 4½ in; blade 7½ in x 3 in broad. Stipe & rachis almost white, with very light scales. Blade gray-green, rather firm, tri-

pinnate below, bi-pinnate above, teeth short but sharp. Stipe, blade (both sides) & indusia obscurely but def. (20X) glandular. Indusia kidney shaped, persistant. Sori 1 mm (a slightly more) in 2 distinct rows near mid rib, not reaching to end of seg., but found almost or quite to uppermost tip of frond. Cross-section of rachis shows 5 fibre-bundles.

8-29-31 Aspidium Filix-mas (See 5-29-31)
Sp. Pk B near above.

8-29-31. Sagina Linnaei Presl. Coste I. 198, Bon. 48 = S. saginoides Dalla Torre B & H 69, S & K I 242 Fr. Rochers de Naye eastern ridge. Sepals 5, glabrous, oval, very obtuse, thick, nerveless, closely appressed to capsule. Sepals 3 mm high, capsule projecting 2 mm. Styles seem 5. Petals white about ½ as long as sepals, obtuse, entire or a little irreg. at apex not notched. Stamens 10. Capsules opens in erect, round valves (to top of calyx) often 5 but sometimes 4 or 6 (perhaps 6 by one of valves splitting again). Seeds brown minutely tuberculate (20X) their reniform shape variously altered by compression, about ½ mm longest dimension. Peduncles 10-14 mm & more or less curved (Bon), Lvs to 13 X 1 mm, very shortly apiculate (at least when young.) Whole plant glabrous.

8-29-31 Anemone narcissiflora L. (See 5-29-31) Fr. Rochers de Naye

8-29-31

Naye. Achenes very flat, slightly obovate 6x5 mm with style about 1½ mm ± reflexed along one edge. Achenes reddish brown, glabrous.

8-29-31

Poa alpina L. (See 8-16-31) Fl. and viviparous plants (the 2 forms not on same plant. Ligules on young sterile shoots at base short & truncate, ligules on culm lvs elongated & acute. Spikelets 6 mm, lemma 4-5 mm. Lemma with heavily pubescent on keel (to above middle) & on edges (below middle) & ± softly pubescent on surface between, scarious at tip, not webby at base.

8-29-31 Phleum alpinum L. Coste II 546, Bon. 350, B&H 532, G 129. Fl. Rochers de Naye. Culms to 10 in high, infl to 2 cm high, Glumes purple at tip, to 3½ mm high, awns 2-2½ mm. Cfd with P. pratense. & 9-6-31

9-2-31 Pimpinella magna L. (See 6-6 & 7-22-31) Fr. Naye. Fr fully 3 mm long, (3 & K & ?), and as wide or slightly more. Now smooth, striped (brownish & greenish) but ribs not protruding.

9-2-31 Epilobium trigonum Schrank (See 6-30-31) Fr Naye. Capsules pubescent. Seed obovate, 2x1 mm, olive-drab, minutely roughened (20x), edges rounded, nerve on flat side distinct, and broadened toward top ending in narrow thin projecting ... beak, not vis-

ills from upper side.

9-2-31 Eryngium alpinum L. Coste II 156, Bon 135, B&H 3rd 561, S&K II 477 Fr. Gift from Guide Leon coll on slope eastward & below Santaloz. No basal lvs but this has every look of the E. seen commonly cult with basal lvs cordate entire-divided. Head 1½ in. long & bluntly cylindrical at end of flowering & 1½ in wide. When first fls opening, heads are shorter & somewhat conical.

9-2-31 Rumex crispus L. Coste III 200, Bon 272, B&H 394, G 355, Fl & fr. Glion (seen only at upper gate of new property of English school) Cf with R. obtusifolius. Perianth of ripe fr. lobes cordate & tubercle large (usually large only on one) but these char not evident in fl.

9-2-31 Daphne Mezereum L. (See 5-29-31) Fr. Naye

9-2-31 Indigofera Gerardiana Grah (See 6-24-31) Fr. dinotripe DC. Renold's yard at Val Mont. cult. Cylindrical deflexed pods 1¼-1½ in x ⅛ in, approaching glabrous as they ripen, apiculate (often with bit of style). A pithy substance forms a layer bet. seeds and also fills pod at each end beyond seeds. Pod sessile with withering remains of calyx and stamen tube.

9-2-31 Oxytropis campestris DC. Coste I 371, Bon 83, B&H 123, S&K I 411 Fl & immature fr. Rochers de Naye shortly below top on path toward Sautodoz. Fls to 11 mm along back, yellowish white with 2 dif. yellow splotches on standard and keel, with dif purple spot below apiculate tip. Hairs (silky appressed) on calyx some white, some dark, on pod mostly dark. Stipules united with each other & with petiole but their lance-ovate tips free. Stipules & fl-bracts ± with lanugish glands on edges. (S&K) Fls almost sessile. Bracts not half as long as calyx, remaining on peduncle after fls have fallen without forming fr. Lflts to 15×5 mm, lance ovate, sharp pointed

9-2-31 Gentiana ciliata L. Coste II 561, Bon 216, S&K I 526 Fl. From slopes well below Sautodoz to Naye [9-3-34 Fl Naye See Correvon's ill for lvs & shape of corolla lobes but fringe is less long than ill and around summit is hardly more than denticulation] [9-7-34 Fl. Plans and above Val-Mont]

9-2-31 Saxifraga oppositifolia L. (See 7-10-31) No flor fr. Rocks behind (near path) Sautodoz. Unmistakable.

9-2-31 Aconitum paniculatum Lamk (see 8-16 & 27-31) Fl & advanced fr. Naye. Cfd with A. lycoctonum L as to lvs. & fr. Lvs cut to base so that segs are almost short petiolate (in A. l. - lvs not cut clear to base & segs. broad at base. Lvs coarser & larger). Infl similar to A. l. — but more spreading & less dense. Seeds with very deep, transverse, wing-

like flutings deeper than the space between.

9-2-31 Aconitum lycoctonum L. (See 6-12 & 20-31) Cfd with above. Fl & fr. Naye. Seeds similar to above but ridges not so def. fluted and less deep than the space between.

9-2-31 Delphinium elatum L. (See 8-16-31) Fl & advanced fr. Naye below Santodoz. Cfd with the 2 above to which it is very similar in general look of fr. but seeds tho sharply angled not (now) at all transverse ridged. Distinguished not only by more glaucous appearance but the stouter st. hollow & the unripe carpels bluish.

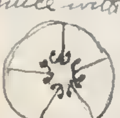
9-4-31

Vitaceae or Rhamnaceae or nearby family. Fl & unripe fr. Cult. Lane to north of Vevey. Trailing vine (hanging over wall) but no tendrils and as far as observed st. not coiling. Lvs. alt (longer than internodes), ovate to 3 × 2½ in cordate, sometimes def. (sometimes hardly) 3-lobed above middle, broadly crenate, acute & acuminate, dark green, [both sides] almost shining but with hairs on the veins both sides. Petiolate to ¾ in somewhat pubescent. Stipules short broad deciduous, those found are thin brown & scaly, somewhat ciliate. St. somewhat pubescent and inclined (like petioles) to reddish tinge. Infl. a small compound cyme on short [illegible], peduncle [illegible] each lf. Calyx

7-4-31

Calyx campanulate 4 mm high with 5 short rounded lobes. Corolla greenish of 5 ovate-lanceolate petals, 3 mm long, free, thickened & slightly hooded at apex, inserted between calyx and a very apparent disk (thick 1½ mm wide). Stamens 5, free, opp. petals, much smaller, shorter than (nearly equal to) petals; anthers yellow opening introrsely. Style short conical, its rounded tip stigmatic. Ovary seems at first embedded in disk but it [illegible] is plainly superior (calyx & disk showing plainly below). Ovary 2-celled with 2 ovules in each cell (1-4 maturing); ovules attached at base. Oldest fr. now about 7×9 mm, green with tiny dark spots, berry-like but walls thin & no pulp. See Ampelopsis BM JCP 479 "mostly tendril bearing"

9-4-31 Hypericum calycinum L. BM JCP 504, SUKE 248 [illegible] fr. Near above. Cult. in unkept shrubbery. Sts 6 in high, pinkish, 4 angled, not [illegible], glabrous, [illegible] from base, internodes ½ in. Lvs opp. oblong, sessile, entire, obtuse, very firm, glabrous, dark green above, finely checkered very pale green beneath; the upper lvs 2×¾ in. Fls solitary on peduncles ¼ in. Sepals large (largest to ⅝ in) ~~br~~ oval, rounded at apex, with faint signs of ciliation. Styles 5. Capsule almost ¾ in high, ovoid, when cut, exude sticky juice with slightly resinous odor. Note cross section



of fruit: hollow in center, with the 5 partitions thickened & spongy at inner end and almost cohering into a ring. The many ovules borne on each side of [illegible] hence appearing, at first sight, axillary.

* This description of corolla was taken from a loose one in box and applies to L. purpureum L.

9-4-31 ? Lamium amplexicaule L. Coste II 137, Bon. 252, B&H 371, B 793, S&K I 561 (Bud) Fl & fr. Blonay-Vevey. Plant with bract-like leaves. No bracteoles. Coste. Calyx lobes soft, hairy inside (S&K) tho less so than outside, "connivent après la floraison" Coste. [? * Corolla 15 mm long, tube enlarging rather more gradually than ill. (Coste). Lower lip notched at apex as ill. (Coste and B&H) with tiny tooth between, the lateral lobes small but with def. linear appendage (about 1 mm long). Tube ~~...~~ has a ~~...~~ transverse constriction ~~...~~ inside near base. Upper lip entire Coste, & def. pubescent outside. Anthers bearded, very dark brown. Pollen orange. Corolla has slight outward bulge on back just below base, where [to] * Carpels when not quite ripe brown with 2 white stripes at base which extends V-shaped upward to the 2 edges. At later stage carpels more or less crusted with white embossed effect.

9-4-31 Matricaria Chamomilla L. Coste II 343, Bon. 167, B&H 247, B 847, S&K I 684 Fl & fr. Blonay-Vevey. The 5 white ribs on inside of achene distinct (20 X). Heads have apple-ish odor.

9-4-31 Lamium purpureum L. (See 4-19-31) Fl & unripe fr. Blonay-Vevey with L. amplexicaule (see above). Appendage on seed less & whiter. Note S&K I 561 dark anthers & orange pollen is given for L. maculatum, ~~...~~

9-4-31.?? Mentha viridis L. Coste III 80, Bon 248 = M. spicata L. G 711, SvK I 576, B&H 359, BMJ C.P. 645 Fl v unripe fr. Wall Blonay - Vevey perhaps cult. Sts purple. Lfy purple stolon above ground. Lvs sessile (or petiole less than 2 mm. Plant glabrous except few hairs on bract & calyx teeth. Infl narrow terminal 1½ in × ¼ in. Bracts linear about as long as calyx. Calyx teeth not base but long narrow pointed. Calyx tube with nerves not very distinct; may be more than 10 (SvK) Ident not at all sure

9-5-31 ! Nasturtium silvestre R. Br. Coste I 96, Bon 25, B&H 29, = Radicula sylvestris Druce G 431 = Rorippa silvestris Besser SvK I 350 Fl v very young fr in ditch Les Avants on rd to Chamby. Ident as nearly as possible + S. and very like ill (Coste). Sepals v petals def. yellow, the sepals somewhat softer in color. Fl 4 mm high; petals about ½ again as long as sepals. Pod about 1 mm; pod often curved. 1 - few seeds only maturing but abortive ovules def in 2 rows. Infl greatly elongated after flowering v like ill (Coste) Pod contracted under stigma as ill (Coste) [In the light of 8-19-34 This ident seems sure.]

9-5-31 ? Rosa canina L. (See 7-11-31) Fr Les Avants - Chamby. Fr large (to 23×17 mm) the reflexed sepals falling when collected.

9-6-31 Bidens tripartitus L. Coste II 357, SvK I 680 =

B. tripartita L. Bon. 169. BVH 345. Fl & fr. Noville.
St purple, somewhat pubescent with tuberculate hairs [illegible] Lvs pubescent beneath with reticulate veins. Branched from base with erect branches 16-30 in, at [illegible]. [illegible], olive-green with many fine [illegible] lines down center. Achenes 8mm, ~~barb~~ awns 3mm with downward pointing barbs

9-6-31 Lychnis alba Mill. G 384, BM&CP 367, ~~[illegible]~~ BVH 67 = L. vespertina Sibth. Coste I 183, Bon 45 = Melandrium album Garcke SVKI 231 ♂ fl. Noville. Calyx 16-18mm, of which teeth are 3-4 mm. Calyx inflated, very gland-pub., red veined. Fl open at 6 pm. no odor noticeable.

9-6-31 Potentilla Anserina L. Coste II 21, Bon 98, BVH 144 G 484 Fr. Noville.

9-6-31 Symphytum officinale L. Coste II 581, Bon 220, BVH 325 G 683, BM&CP 625 Fl & adv. fr. Bouvret-Noville. Corollas yellowish-white, 13 mm long.

9-6-31 Sonchus arvensis L. Coste II 437, Bon 187, BVH 272 G 865 Fl & fr. Bouvret-Noville. Achenes brown 3-4 mm.
[7-18-33 Style & stigmas yellow as desc. SVKI 726]

9-6-31 Pulicaria dysenterica Gaertn. Coste II 315 = P. ~~[illegible]~~ Bernh. SVKI 678 = Inula

9-6-31 Inula — L. Bon 171, BvH 243 Fl & immature fr. Bouveret-Noville. Head 2 cm diam of which disk is 1 cm diam. St very stiff, branching only at top. Lvs crinkly. Stamens plainly appendaged. Collar at base of pappus evident even in young fr. Achene pubescent.

9-6-31 ? Crepis nicaeensis Balb. Coste II 445, Bon 190, SvK I 731 Fl & young fr. Bouveret-Noville. 32 in high. Leafy below with long, narrow, runcinate-pinnatifid ± pubescent lvs. St rather hispid below, rough & def grooved above, tending to be naked above & branched only near top. Invol 10 mm high (SvK) its bracts glabrous inside. Outer bracts spreading. Longest achene now 5 mm shows no sign of beak, ribs prob not more than 10. St. lvs cut into narrow lobes, sessile but not auriculate clasping. Heads about 3 cm diam when open. Pappus white denticulate.

9-6-31 Quercus Robur L. BMBJ No 231, SvK I 300, BvH 422 Sch II #353 = Q. pedunculata Ehrh. Coste III 259, Bon 285 Fr. Bouveret-Noville. Petioles 5 mm. Lvs def. auricled at base. Peduncle 4 cm. Scales so closely appressed that to eye cup looks merely warty (or ridged in circles). Lvs and branches quite glabrous.

9-6-31 Rhamnus Frangula L. Coste I 275, Bon 64

B&H 104, G 562, BM&CP 475 = Frangula Alnus Miller. S&KI 446. Fl v fr. Bouveret-Noville.

9-6-31 Evonymus europaeus L. S&KI 443, Bon 63, G 556, B&H 103 = E. europaea L. BM&CP 465 = E. vulgaris Scop. Coste I 271 Fr Bouveret-Noville. Branched (col. 1 ft from tip, def. green. Peduncles to 2 cm, bearing 1 or 2 fr on pedicels 5-8 mm.

9-6-31 Mentha aquatica L. Coste III 80, Bon 248, B&H 359, G 710, S&KI 574 Fl v fr Bouveret-Noville Ill. Coste good (Ill B&H poor) Petioles of upper lvs 3-5 mm, of lower lvs 10 mm. St. to 2½ ft, lfy with short lateral branches which terminate in spherical infl. Long above ground stolons at base with rudimentary lvs & rooting at nodes. Hairs on st. lvs & calyx articulated

9-6-31 Lysimachia vulgaris L. (See 7-19-31) Fl v fr Bouveret-Noville Lvs opp or whorled in 3's or 4's in a 1 spec. with lvs on main st. def. alt. Capsule spherical, 5 mm length, longer than calyx. Seeds angular with ridge around back, embedded in honey-combed placenta. Seeds cover-ed with thick whitish floury coat.

9-6-31 Oenothera biennis L. (See 8-25-31) Fl v fr. Along waterway shortly beyond Bouveret on way to Noville

9-6-31 Noville. No lvs at base or on lower part of st. 3+40 in the upper 10 in a lfless, bractless spike of fr. Below this terminal spike a few axillary short spikes of fl & young fr. with bracts ± ½ in (hence shorter than upper capsules of 1 in.) Fl 3.5 cm diam., petals longer than stamens. In fl. ovary 1 cm, calyx tube above ovary 2 cm, reflexed calyx lobes 18 mm., petals 17 mm. long.

9-6-31 Erucastrum obtusangulum Reich (See 5-26 & 7-16-31) Fl & fr. Bouveret. Pod to 3.5 cm of which 5 mm is beak containing a seed. Ripe seed rough-pitted (20 X)

9-6-31 Artemisia vulgaris L. Coste II 332, Bon 165, B&H 351, G 849, Fl & unripe fr. Bouveret on id. out of town before path to Noville [8-17-34 Villeneuve. Note the ♀ fls with narrow tubular corolla (S&K I 688)]

9-6-31 Matricaria inodora L Coste II 343, Bon 167, B&H 346, G 846, BM of CP 761, ~~S&K I~~ = Chrysanthemum maritimum Pers. S&K I 685 Fl. Bouveret with above. 3 ft high, lf-segs. filiform ½ mm wide, and not grooved above (as Bon says), but otherwise as desc. inc. glandular spots on achene (Coste; B&H) of fr. with M. Chamomilla L. of 9-4-31

9-6-31 Humulus Lupulus L. Coste III 250, Bon 284, B&H 414, G 347, BM of CP 343 Unripe fr. Bouveret-Noville. Only 1 achene to each scale. Scales very glandular at base, but little

so on exposed surface.

9-6-31 Rumex conglomeratus Murr. Coste III 199, Bon. 373, B&H 395, G 356, SvA I 208 Fl & fr. Bouveret-Noville. No lower or basal part col. St. with many slender spreading fl. branches in upper half (as col.) suggesting ill. (Coste) Inner fr. valves 2×1 mm, obtuse, entire, equal, all three equally tubercled. Tubercle proportionately large but as Coste says not covering the whole length (nor yet quite the whole width) of the valve. Lower section of fr. pedicle often almost 1 mm (SvA) often less. Infl more or less lfy.

9-6-31 Phragmites communis Trin. (See 8-19-31) Fl. Frequent Bouveret-Noville. Lodicules very apparent (20×)

9-6-31 Sedum dasyphyllum L. Coste II 115, Bon. 12, B&H 167, BM J C P. 319, SvA I 323 (see SvA II 144) Remains of fr. infl. Bouveret on wall just east of town. Infor very slender, [illegible] naked sts. 1-1½ in. high too withered for study. Rest of plant like form seen in Majorca but not glandular [or perhaps the rather obscure (20×) blisters in lvs might be considered sessile glands.

9-6-31 Melilotus altissima Thuill (See 8-19-31) Fl & fr. Bouveret-Noville. Pod black, splitting on the gibbous back so as to show seeds. (SvA. also char. of M. officinalis Lam.) not rupturing

9-6-31 rupturing calyx, reticulated. Hairs which are evident but sparse on unripe fr. often obscure when fr. ripe.

9-6-31 Larix decidua Miller 465, BMDCP.33, SVKI 21 = L. europaea DC. Coste III 284. Bon 273. Fl Noville. Cones 2.5-3.7 cm. L vs. 8-37 mm in same bunch.

9-6-31 Phleum pratense L. Coste IV 540, Bon 355, SVK 556, 2129 Fl. Noville Cf with P. alpinum L. 8-29-31

9-6-31 ?? Chenopodium ~~strictum~~ album Marr. SVK I 220
Fl & fr. Bouveret-Noville (Same found 9-4-31 St. Legier-Vevey and commonly 9-11-31 Sierre. These spec. consulted in this description) Using key SVK I Plant not glandular nor (#1) lvs spear shaped (#2) nor heart shaped or broad triangular (#3). Perianth is def. (tho not heavily) mealy & the strongly keeled per segs completely hid grain See *4*. Not #10 and, since seeds (thin coat removed) are shining & smooth, not #11 (all 3 spec under #12 carefully considered - See Coste and Bon ruled out) Lvs longer than wide See #15* St to 1M. ridged & striped white (or red) & green, with long slender branches from base, the lower ones wide spreading, the upper more nearly erect. Lvs green (only sometimes reddish on edge 20x), elliptic-ovate, cuneate at base, mostly obtuse at apex. The largest to

55 x 25 mm, never lobed, almost entire or slightly toothed above widest point (above the deltoid base); upper & smaller lvs lanceolate & sharp pointed entire. Infl might be called olive green. Umbels have effect of being spherical. Perianth mem., was white on edges with pronounced green keel. (the edge ... turning pinkish) Seed horizontal, its edge hardly sharp, smooth & shining fully 1.5 mm diam. Next-best guess is some form of C album L.
See S&K II 95.

9-8-31 Crataegus Oxyacantha L. (See 8-19-31) Fr. Caux. Cf. with C. monogyna Jacq. Lvs very shining above. Fr. larger (1 cm high). Calyx lobes often ± erect. Pedicel & fr glabrous

9-8-31 Crataegus monogyna Jacq. (See 5-21-31) Fr. Caux
Lvs dull. Fr smaller than C. O. – (7–8 mm high). Calyx lobes very strongly reflexed. Pedicel & base of fr with few spreading white hairs.

9-8-31 Molinia caerulea Moench (See 7-11-31) Fl. Caux. 3 ft (& more) high. Lvs 1 cm wide. This is the pasture grass not rare in damp waysides at V-M. & frequently puzzled me. Seems no doubt of ident. Spec of 7-11-31 is remembered as much shorter and as remembered threw no light on this.

9-8-31 Pteris aquilina L. Coste III 697, Bon 381, SVK II 588, & Gl.
= Eupteris aquilina Newman SVK I 11. Gléon. Indusia just beginning to develope.

9-13-31 Geranium palustre L. Coste I 249, Bon 58, SVK I 425 Fl & fr. Gruyere. Coll with G. silvaticum for which at first mistaken. Root not col. Dif (to eye) from G. s— in that it is more slender and spreading in grass and rough to touch; lvs smaller; infl less dense; whole effect weaker & more spreading. Petals redder and without the dif whitish ~~cent~~ base of G. s—.; pedicels much longer. Filaments short ciliate at base, otherwise glabrous not pubescent on back at base as in G. s—. Claws of petals bearded on face ~~back~~ as in G. s—. Plant not at all glandular and strongly refracted in fr. as desc. Seeds faintly reticulated, dull, ~~yellowish~~ brownish brown ~~but darker at one end~~. Opened carpel ~~St~~ has tuft of few longish stiff hairs at base.

9-13-31 Sedum maximum Suttee BMJCP 321, Bon 110 = S. —— Hoff Coste II 114 = S. Telephium L. ssp maximum Rouy & Camus SVK I 321. Fl & unripe fr. Gruyere towards Montbovon. Roots a cluster of small carrot-shaped tubers. (Coste and SVK say perennial. BMJCP "annual" must be a mistake) and rootlets showing tuberous enlargement to eye. Lvs opp or in 3s, 1 to 6 X 3 cm sessile but none really embracing. Fls greenish-white; ~~Pt~~ Anthers reddish brown. P[illegible] hardly hooded at apex.

9-13-31 Nasturtium officinale Br. Coste I 95, Bon 215, B&H 29, S&K I 301 = Rorippa Nasturtium-aquaticum Hayek BMJCP 319 = Radicula Nasturtium-aquaticum Britt & Rendle. G 431 Fl & adv. fr. Gruyere. Seeds plainly in 2 rows with roughened surface. Pods wide spreading, always at least somewhat curved upwards, to 15 mm on pedicels of less than 10 mm.

9-13-31 Physalis Alkekengi L. Coste II 614, Bon 227, S&K I 578, G 715, BMJCP 657 Fl Gruyere towards Mont Hoom perhaps escaped. Calyx about 7 mm cut ½ way into 5 lanceolate lobes. Corolla 2.5 cm wide, softly pub. on outside & edge, greenish white with def. green markings in center. Anthers same color as corolla.

[???] [or P. Auberti L. Henry
9-13-31 Polygonum baldschuanicum Regel BMJCP. 246. Vine on Station at Grandvillard and seen often at Albion Fl & fr. Fl. fully ¼ in wide. Inner persey. pinkish, outer almost white with greenish strip down center inside and def. winged in fl. Filaments with short perpendicular hairs at base. Perianth as large in fl as in fr. Infl. light-tannish not as desc. for P Auberti L. [See 9-8-34 Fl. Drogegarden val soat V-M.]

9-13-31 Gentiana germanica Willd. Coste II 561, Bon. 216, B&H 314, Ill II #255, S&K I 532 Fl. Gruyeres around towards Montbovon. No question of ident. by S&K. (See key #24 & #26*) The 5 parted calyx has sharp sinuses, the edges of lobes not ciliate but very slightly papillose. Ovary short stipitate. St. 27 cm high, of 11 sections. These unequal: the lower & upper ones to 3 cm (much longer than lvs.) but some about middle only 1-1.5 cm long (so shorter than lvs. St. lvs acute of the uppermost acuminate.) St. simple & with fls only in upper 1/3 but very small fl-buds discernible in axils in upper 2/3's. Fl 22-27 mm high (counting corolla lobes). Calyx rather more than 1/2 as long as corolla tube, 2 of lobes somewhat broader than the other 3. Corolla lilac its lobes ± dashed (longitudinally) with white. Plant now bears 9 fls (exc. of buds). <u>But</u> stigmas not "roulés" (Coste) but more like ill of G. Amarella L. and calyx divisions often come well below the middle.

9-13-31 Veronica agrestis L. Coste III 36, Bon. 237, B&H 348 & 728, S&K I 596. Fl & unripe fr. Bulb at station Grandvillard. Only hairs on fr are gland bearing (so ident. sure acc. to S&K), these are rather sparse & only towards edge, the base of fr being glabrous. Style about 1 mm, closely wedged in narrow sinus & just reaching height of top of capsules. (Coste says less than 1 mm). Corolla [illegible] white. But [illegible]

Capsules now shows no veins. ? a ux. rub. ovr ½ - lanceolate, obtuse, narrowed at base, ciliate (few ? otherwise), rather spreading.

9-13-31 Senecio
Fl & young fr. Occasional Cruzese - Grandvalland. Only poor spec. coll. Blades of rays 5 mm long & (when studied 9-16) mostly rolled back say S. erucifolius L. but against this are: invol 5×4 mm, S&K I 695 says 3 X as long as invol). invol. bracts dif blade bifid? (Coste II 302 says not) and outer achenes glabrous (Coste says all pub.)
Best guess seems S. aquaticus Huds Coste II 304, Bon 163; B&H 255 (but desc not helpful): S&K I 697. St & lvs not quite glabrous but not at all cottony. Lower lvs petioled, consisting mostly of large terminal lobe (more or less lobed or dentate) with a few very small lateral lobes. St lvs much smaller deeply pinnately lobed, sessile, clasping by lobed base. Infl is a few short erect panicles at top. Peduncles slender, ridged (like st.) somewhat webby with loose wool, with several narrow lanceolate bracts none or few (being those of peduncle continuing to near base of invol.)
Ray achenes glabrous with pappus often falling before. R. ? but other achenes now without pubescence.

9-14-31 Sambucus Ebulus L. Coste II 230, Bon 137, B&H 215 Fl & fr. Allieres. Fd with S. nigra L. Filaments fleshy & irregular.

9-14-31 Cuscuta europaea L. Coste II 574, B&H 318, G 692
S&K I 535 = C. major C. Bauhin Bon 218 Fl & unripe fr.
Allières on Urtica. Seeds (a+b) finely tuberculate (30x)

9-14-31 ?? Barbarea stricta Andrz A 433, B&H III #36, S&K
I 299 = B. — Bor Coste I 89 Fr. Allières. The simple sessile
(± sinuate lobed) upper lvs indicate this or B. vulgaris R. Br.
Lvs on tuft at base [illegible] agree with B&H III. Terminal lobe 25 x
23 mm (hence almost orbicular) deeply cordate, almost entire
(slightly wavy sinuate), wider than length of lateral lobes.
Upper pair of lateral lobes ± 9 mm x 7 mm; a lower pair much
smaller or lacking. Or often no lateral lobes. Beaks of cap-
sules suggest sec 3b, 2-2.5 mm long x 1 mm wide at base
Pedicels stoutish, 3 mm or slightly less; pods about 2 cm,
erect or almost appressed, usually in line with pedicels
but to grow so that raceme looks slightly curved up-
wards. Note S&K doubts existance of B. stricta in Suisse
Perhaps this is B. vulgaris R. Br., the only other possibility
Other spec had terminal lobe to 4 cm wide

9-14-31 Polygonatum verticillatum All (See 5-12-31)
Fr. Jaman - Allières. Fr red. Note this is first plant found
with fr. ripening properly.

9-14-31 Cystopteris alpina Desv (see 6-12-31) St. Jaman
station - Col de Jaman by road. Tho constantly looked

for not found since in same region 6-12-31.
Effect much more lacey than C. fragilis. Secondary div. deeply cut into narrow lobes, like ill. (Coste) 3 fd with C. fragilis for which it can not be mistaken when seen together

9-16-31 ✓. Acanthus mollis L. BM/CP 698, Coste III 60, Bon 257
Fl v unripe fr. Cult V-M. round bed near 3rd gl entrance. No question of genus. Species queried only because of so glabrous v the rather firm tips to teeth of lvs might poss. be called "spiney". Lf glabrous except on veins above, more def. sub. on veins beneath. Bracts v larger calyx lobes elegantly veined with green v more or less bronzy at tips. Upper calyx lobe 2 in or more long entire or obscurely notched at apex; lower lobe 1½ in or more long def notched at apex. The 2 inner calyx lobes orbicular ¼ in high. These + lobes seem separate quite to base.

9-18-31 Sedum
Fl. on wall along old road behind Chateau Aigle. Perennial with thickish decumbent sterile branches 3-4 in long often rooting, often roughened but not pubescent. Branches now naked below with short internodes giving a ringed appearance. Lvs opp v now crowded into a 4-lined rosette at tip of branch. Lvs thick, flat, almost sessile, largest 15 x 5 mm (in center of rosette much smaller), cuneate at base (i.e. half or more of length) and then rest rounded, def crenulate above, papillose on edges (these pimples never suggesting hairs

9-18-31

hairs except sometimes at very base, surfaces wite glabrous. Infl. a compact corymb of 3 short branches (about 3/8 in long) with 2-3 fls. Calyx 5 mm high; sepals lanceolate, thickish at tip & blunt, glabrous. Petals white (or very faintly tinged pinkish) 10 mm long (hence exceeding sepals by 7 mm) acute, almost mucronate, stamens attached 2+ mm above base. Stamens shorter than petals. Anthers red-yellow in bud but dark later. Fl. 5-merous. Fl-branch like sterile ones except infl. instead of rosette of lvs and (now) a few lvs beneath, appearing alt. because 1 of pair lvs fallen. Not in Coste, Bon or BvH. If in BM of CP might be ~~S. sp~~ S. spurium Bieb BM of CP 320, SVK I 322 (seems unlikely on grounds of pubescence) or S. stoloniferum Gmel BM of CP 320, SVK II 145. But not SVK II 145 says S. populifolium Pallas (not desc. in other manuals) is established at Aigle.

SVK I 603

9-18-31 | Melampyrum pratense L. Coste III 59, Bon 239, BvH 354 Fr. Aigle edge of woods behind Chateau. Slender annual to 1 ft high, with long spreading, upward curved branches sug. Fig 104 SVK I 599, somewhat pub. with short downward curved hairs esp. on 2 sides. Lvs. very short petioled (almost sessile), lanceolate 7 to 17 mm wide. Bracts green, the lower ones like lvs, the upper ones deeply cut into 5 narrow sharp teeth. Infl short & lax, 1½-3 in long, fr unilateral. Calyx is-

regular, the slender teeth longer than tube, the upper teeth def. sickle shaped & curved backward the narrower lower teeth rather less so. Fr 9-13 mm long, well exceeding calyx, opening only on upper side, 3-seeded (in capsules studied) calyx often purplish. No decision as to which of the 4 species into which SvK I divides M. pratense fo 602.

9-18-31 Hesperis matronalis L (See 6-14-31) Fl & fr. Les Diablerets. Fl purple. Pods very spreading, to 5½ in long. Seeds with thin edge at tip (to accomodate seeds on other side of partition

9-18-31 Phalaris arundinacea L. var picta L. Coste II 534, A 121, BMQCP 113, SvK II 21. See Baldingera arundinacea Dumort Bon 349 Fl. Cult. Les Diablerets.

9-18-31 Betula pendula Roth. SvK I 196, BMQCP 229 A 335 = B. alba L. Coste III 275, Bon 289, BvH 419. Ill II = 332 (for dif from B pubescens Ehrh) Fr & staminate buds (2 cm long). Diablerets roadside (a scrawny young tree, poss. planted) Fr 2 cm long. Scales with lateral lobes more def. reflexed than ill (Coste & BvH Ill) & (relatively to terminal lobe) larger. Seed like ill (Coste) with wings twice as broad as seed & far surpassing styles.

9-20-31 Antirrhinum Orontium L. Coste II 10, Bon 2 33, SVK I 587 Fl & unripe fr. Vineyard above Bevieux

9-20-31 Linaria minor Desf (see 8-5-31) Fl & fr. See above. Pros. palate dzonot entirely close throat Note found oc-casionally since 8-5-31 (ie at St. Gingolphe 8-19-31) but not recorded.

9-20-31 Diplotaxis muralis DC. Coste I 80, Bon 32, G 428, SVK I 293 = Brassica — Boiss BvH 38 Fl & fr. Les Posses-Bevieux No question of genus because seeds in 2 rows & cotyledons conduplicate, nor of species (D. tenuifolia DC only other poss in SVK) since fr-pedicels 5-16 mm, fl-pedicels never longer than fl. Fl 6 mm high (if petals upright), 8 mm across (petals extended) fragrant. But petals not "brusque-ment" contracted to claw (Coste) & style at least in fl seems slightly contracted at base. Plant 19 in high with lvs as high as 7 in above base but usually 4-5 in above base Lvs not fetid. Plant almost glabrous (very sparsely hir-sute); calyx with few stiff hairs at tips. Valves def 1-nerved.

9-20-31 Asplenium fontanum Bernh. Coste III 693, BvH 585, SVK I 10 = A. Halleri DC. Bon 380 Sp. Les Posses-Bevieux.

9-20-31 Teucrium montanum L. Coste III 139, Bon 257 SvKI 554 Fl v fr. Les Posses-Bevieux. 1

9-20-31 Polygonatum officinale All. Coste III 357, ~~Bon~~ SvKI 148 = P. vulgare Desf. Bon 301 = P. anceps Moench BvH 474 Fr. with above. Plant to 10 in high. St sharp angled & twisted Lvs to 3X1¼ in or (usually) shorter & broader. Fr to 13 mm diam, solitary on pedicels ±1cm. Seeds (not the fr looks ripe) show no "points brillants" (Coste)

9-20-31 Impatiens Roylei Walpers. BMJCP 474, SvK II 244 = I. glandulifera Royle BvH SM II #119 Fl v fr. Escaped Leysin. Plants at least 3 ft high. St dark red. Lvs dark purplish green above, much lighter beneath. Fls purplish. At base of petioles (at least in upper lvs) several clubshaped glandular appendages to 5 mm long

9-20-31 ? Vicia sativa L. Coste I 384, Bon 86, BvH 128 & 526, BMJCP 392, SvK I 418. Fl v fr. Les Posses-Bevieux. Same only poss, but effect is not like V. sativa in Majorca. Lfts usually 4 pairs, sometimes 35X16 mm. Calyx 11 mm, regular, the narrow teeth ± as long as tube. Corolla about 2cm. Standard greenish on back but with bright red-purple spot obvious at base of blade

9-20-31
blade. Standard inside purple on edges, almost white in center. Wings rich purple at tips, greenish white below, much shorter than standard, much longer than keel. Fr. about 5 cm x 6 mm, dark brown when ripe. Ovules have cellular tissue separating them at edges (not conspicuous in ripe fr.) but not bet. faces. Note: the lvs with large lfts are near towards end of st; those below smaller. Fls always solitary. Tendrils mostly branched.

9-20-31 Atriplex hortensis L. Coste III 177, Bon. 267, BvH 390, BM&CP 251, SvKI 220 Fr. Cult. in garden prob at Les Posses. Both kinds of fr as desc BvH. Lvs all withered.

9-20-31 Papaver dubium L. Coste I 61, Bon 13, BvH 19, G 416, SvKI 274 Fl v fr Les Posses-Bevieux with ? Vicia sativa. Since juice is greenish (or colorless) and becomes white in air (certainly not at all yellow) this is prob. ssp collinum Rouy & Fouc SvKI 274. Rays reach to ½-¼ mm of edge of disk.

9-20-31 Berberis vulgaris L. Coste I 56, Bon 11, BvH 16, G 413 BM&CP 287 Fr. Gryon-Bex. Spiny teeth on lvs ± 1 mm. Fr. 8 mm long, elliptical or certainly no broader at base than above. [5-15-34 Bud in edge of woods below v east of Sonchaux
9-1-34 Fr. Path in gorge Café des Narcisses → Les Avants.]

9-20-31 Stachys annua L. Coste III 117, Bon 253, G 701 = S. annuus L S.&KI 565. Fl & fr. Gryon-Bevieux. Cf. S with S. recta L. Root not coll. St erect & freely branching purple, with very short, articulated downward curved hairs (hairs on S. r.— articulated, longer & spreading making st. rough to touch) Floral lvs only on spec. then entire with nerves looking almost paralleled (Floral lvs of S. r.— toothed, net-veined & almost rugose). Calyx teeth narrow than S. r.—, curved & the subulate tips not def. glabrous as in S. r.—. Corolla (about 12 mm.) smaller than S. r. ~~about~~, the ring of hairs almost lacking but represented by partial ring on upper side which proj. is horizontal (not def. oblique as in S. r.—. Seeds black slightly roughened. Corolla somewhat frilly on edge of upper lip [See 8-30-34 Gllion]

9-21-31 Geranium columbinum L. Coste I 245, Bon 57 B&H 96, G 536, S&KI 426 Fl & fr Gllion (only 1 pr. a spec found on wall Mont-Fleuri towards lower bridge over brook). Petals 7 mm long, slightly notched & apiculate at apex — purple with 3 darker veins, ~~gradu~~ gradually lighter towards base, glabrous except for def. ciliation on claw. Fr almost or quite glabrous, smooth, beaks short appressed pubescent. Seeds reticulate. Plant slender, decumbent, with appressed downwards pointing hairs (no glands). Peduncles & pedicels long & filiform.
[5-20-34 Fl. R'd above Planaoud → Au Marsillon
8-16-34 Fl & fr. Val-Mont Farm end of path at back door]

9-21-31 Calamagrostis argentea DC. Coste III 563, Bon 355

9-21-31
Bon 355 = Lasiagrostis Calamagrostis Link = Stipa Calamagrostis Wahlenb SVK I 47. Fr. Glion. Shortly west of lower bridge on path towards Mont Fleuri. Lvs 5-8 mm wide. 1st glume ± 7 mm, lemma 4 mm (densely covered with long spreading hairs), awn 10+ mm.

9-21-31 Inula Conyza DC (See 7-26-31) Flv fr. Glion. Achenes brown, ridged, club-shaped 2.5 mm long, oblique at base; pappus tawny, denticulate, 1 row, united at base. Achenes with few short hairs towards top.

9-21-31 ? Salix Caprea L (See 5-3-31) no flv fr. Glion. Rd west of town just before reaching saw-mill. Twigs purple brown, puberulent. Lvs to 6.5 x 4 cm, very slightly webby pub. above, thickly pub. with crispy hairs beneath, veins very distinct, tip abruptly down-curved. Stipules conspicuous. Buds glabrous & bright red.

9-24-31 Malva Alcea L. Coste I 336, Bon 55, G 568, BM DCP 484, SVK I 449. Fr. Veytaux at lower end of rd to Sonchaux. Lvs more deeply cut than ill (Coste). Whole plant rough with starry hairs. Carpels black, glabrous, slightly roughened crosswise, rounded on back (no edges), breaking away from axis of fr. so as to leave a part of coat so that axis is left surrounded by row of cells (each cell wall made of the united coatings of 2 adjacent carpels.

Disk of axis radially ridged, when ripe, earlier smooth 4.5 mm diam, rounded on tip. Carpels 2.5 mm longest meas.

9-24-31 Sinapis arvensis L. Coste I 74; Bon. 21. S&K I 297 = Brassica Sinapis Visiani B&H 39 = B. arvensis Kuntze G 428. Fl & fr unripe but prob full grown. Veyfaux dump on bank of stream. Note: siliques hispid with very short downward curved hairs (B&H)

9-24-31 Helenium autumnale L BM&CP. 779. G 844. Fl & fr. Cult Val-Mont. Invol bracts short, narrow, inconspicuous, in 1 row & joined at base. Besides these a few shorter & narrow bracts (or scales) at outer edge of the receptacle & somewhat intermixed with florets: all herbaceous. Achenes pubescent on the ridges.

9-24-31?? Silaus pratensis Bess. Coste II 187, Bon. 139 = S. flavescens Bernh. B&H 199 = Silaum Silaus Schinz & Thellung S&K I 495. Unripe fr. Glion (Old path V-M. farm to Veyfaux cemetery). Most advanced fr. (perhaps full grown) 4 mm long. Lf. lighter in effect than ill (Coste); segs 2-2.5 mm (Bon says more than 2 mm); veins showing light when held to window might be called "transparents" (Coste). St. with fine red ridges. Lf rachis somewhat broken (bent backward) at nodes. [See 9-17-34

9-24-31? Bergenia ligulata Engl (see 4-20-31) Fl & lvs Cult. Ilion on wall near Lyfaux cemetery. Prob same as 4-25-31. Lf spiney-ciliate, covered with small pits (not def glandular) which are visible to eye only on back especially near veins. Infl a panicle. St & calyx red.

9-24-31? Vitex Negundo L. BMQCP 632 Fl. Cult Val-Mont. Thought to be this & not V. Agnus-castus L. because lvs are not grayish tomentose below and infl is def. panicled. Branchlets quadrangular exp towards tip, with fine brownish puberulence. Lfts 5; the shorter, lower ones about 1 ¾ in, the terminal ones about 4 in overall x ¾-1 in broad. Lower lfts sessile & entire; the 3 upper lfts narrowed to petiolular base and usually with a few coarse teeth near middle. All acuminate. Lfts dull (hardly dark) green & glabrous above; slightly lighter (but not gray) beneath with slight puberulence upon nerves, the surface with minute (20X) shining glandular spots. Lvs aromatic. Infl. spreading paniculate in lower part. Fl 9 mm long to tip of upper lobes of corolla. Corolla a strong lavender (lighter on outside because of white puberulence). Stamens very slightly shorter than lower lip. [Lvs pleasantly fragrant with a spicy-lemonish odour]

9-24-31 ~~Cotoneaster horizontalis~~ Decne BMQCP 393. Fr Cult. Ilion (wall near Veyfaux cemetery ~~[illegible] in spring~~) Young branchlets strigose with yellowish hairs but dark reddish

brown. Edges of lvs slightly revolute. Fr sessile in 1-2 or 3's. about ¼ in long & wide. Stones 3. Lvs broad oval to nearly orbicular, the largest ½ in. above glabrous dark green, shining; beneath lighter (not gray) with sparse hairs like those on branchlets. Fr glabrous vermillion. Lvs apiculate, not at all retuse.

9-26-31 ? Cotoneaster microphylla, Wall. B&H CP 374 Fr. Val-Mont Cult. hanging over Dr. Renold's walls. Young branchlets smooth red but densely ~~covered~~ strigose with white hairs. Lvs elliptic or slightly obovate, the largest 10×4 mm, glabrous ^shining^ above; gray & strigose with white hairs beneath, edges revolute, apex retusely apiculate. Fr solitary, sessile, about ¼ in high × ⅜ in diam., dull crimson, usually with pubescence remaining.

10-5-31 Agrostemma Githago L. A 384, S&K I 227 = Lychnis — Scop Coste I 182, B&H 67 = L. — Lam Bon 45 Fl "pig-house" east of Caux.

10-5-31 Polygonum lapathifolium L. (See 8-19-31) Fl & fr with above. Peduncles heavily glandular. St. strongly swollen above nodes. Achenes flat (but not depressed on sides), fully 2 mm wide

10-5-31
Brachypodium silvaticum Roem. & S. Coste #667 Bon 370 = B. — Beauv. B&H 549 = B. — Tel SVKI 83 Fl. Glion. Wood rd to Au Massillon.

10-5-31 Anthemis Cotula L. (see 7-11-31) Fl & fr. "pig house" east of Caux. Rays with no stigma. Fetid odor evident.

10-22-31 ?? Helianthus orgyalis DC BM of CP 767, 8893 Fl & young fr. Cult. Temple Glion. Sts simple, glabrous, to about 6 ft, somewhat purplish tinged, very lfy base to tip. Lvs linear, nerved, 10 in × 1/4-3/8 in, drooping (& willow like) undulate & slightly denticulate, marked on both sides with sort of callused depressed spots which sometimes bear a short stiff appressed hair (These spots faintly visible to eye) St. corymbose at top, each branch bearing 1 terminal head. Bracts dark lead color, ciliate below with long green acuminate tips (to 2 cm overall). Rays yellow, seems always neutral. Scales lead color & pubescent at tip, enclose achenes. Achenes flattened, with chaffy scales at top.

10-22-31 ?? Chrysanthemum uliginosum Pers BM of CP 760 Fl & young fr with above but better spec seen in various gardens. Sts 3-4 ft. very lfy with lvs lanceolate, very sharp pointed & with sharp upward pointing teeth. Receptacle hemispheric. Achenes ribbed with def border at top.

10-22-31 F.l. Artemisia Absinthium L. Coste II 330, Bon 165, G 850, BM&CP 720, SvK I 688 Fl. Cult in border of Grand Hotel Les Avants. Seems to agree with all descs. Except that heads are ¼ in diam. Lvs. & st. silky white, receptacle hairy, some of outer florets ♀ only, outer invol. bracts linear & not scarious while inner bracts are slightly shorter, broad, very obtuse & broadly scarious. Segs of lvs obtuse & by no means filiform. [8-19-34 Fl. Same aspect. Must be A. Absinthium L. Heads now ⅛ in diam.]

11-4-31

Acacia — bot. Geneva. Stalks white downy. Lvs. alt. ovate, entire, about 1-1½ x ¾ in., pinnate veined, blunt at tip. Infl of axillary simple racemes 2½-3½ in long with about 15-20 globular heads ⅜ in diam on stalks of about same length. Fl. yellow, fragrant. Stamens exerted (10X, handglass) [Labeled specimen Acacia podalyriaefolia at La Mortola 12-14-31 seems the same.

Last # ~~597~~ 3-2-31
598 8-12-31

4-15-31 Medicago lupulina - watch for seed.
4-15-31 ? Arabis white watch for fr.
4-18-31 Corydalis roots
4-18-31 Lathraea roots.
4-18-31 ? Arabis pink V-M.
Equisetum V-M path to church just coming up 4-16-31
4-18-31 Dentaria fr.
? [illegible]
[illegible] white [illegible] Mt. [illegible]
[illegible] 4/22 [illegible]
~~4-17-31 Valerianella carinata Fr.~~ [illegible] wall of passage west of Station (4-22-31)
[illegible] 4/22 [illegible]
~~Poterium~~ [illegible]
5-9 or 10-31. ? Geranium pratense Fr.
5-9-31 [illegible]
[illegible]
5-18-31 Staphylea - fr
5-18-31 Prunus Laurocerasus fr
[illegible] V-M bridge
7-?-31 ? [illegible]
? [illegible]